

AMERICAN SEWER PIPE CO.

AKRON, OHIO, U.S.A.

GAT. G - EFFECTIVE MAY 2, 1910.



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AMERICAN SEWER PIPE COMPANY

AKRON, OHIO

The largest manufacturers
of Sewer and Culvert Pipe
in the world. Also manu-
facturers of Vitrified Paving
Brick and kindred products

GRANITE SEWER PIPE

STANDARD AKRON SEWER PIPE

OHIO RIVER FIRE CLAY SEWER PIPE

Introductory

WE respectfully submit this catalogue to the trade. In it we have embodied a complete line of clay products, all of which are manufactured at our different establishments located in five different States. This line comprises the celebrated Standard Akron Sewer Pipe, Ohio River Vitrified Fire Clay Sewer Pipe, Fire Brick, Vitrified Paving Brick, Flue Linings, Wall Coping, and other clay products, including the celebrated Granite Sewer Pipe, Roofing Tile, etc.

Our factories in Ohio are located at Akron, Lisbon, Toronto, Barberton, Calumet, East Liverpool, Wellsville, Markle, Empire, Freemans, and Uhrichsville; Brazil, Ind.; Jackson and Grand Ledge, Mich; New Brighton, Pa., and New Cumberland, W. Va. Some of these factories are the largest in the world, producing all kinds of clay goods. Distributed as they are, and located with direct track connections with every trunk line of railroads east of the Mississippi River, we can take advantage of freight rates in making shipments from our nearest factory to destination. Time is a consideration, and with these facilities we can fill orders with greater dispatch than our competitors. These factories are the leading ones in their respective districts, and their products are being used throughout the United States and exported to foreign countries.

Our large production enables us to furnish promptly all the goods required on the largest sewer contracts.

We solicit your patronage.

American Sewer Pipe Company

Approximate Weights, Dimensions, Etc.

STANDARD SEWER PIPE

Calibre Inches	Thickness Inches	Weight per Foot Pounds	Depth of Sockets Inches	Annular Space Inches	Price per Foot
3	$\frac{1}{2}$	7	$1\frac{1}{2}$	$\frac{1}{4}$	\$0.20
4	$\frac{1}{2}$	9	$1\frac{5}{8}$	$\frac{3}{8}$	.25
5	$\frac{5}{8}$	12	$1\frac{3}{4}$	$\frac{3}{8}$	.30
6	$\frac{5}{8}$	15	$1\frac{7}{8}$	$\frac{3}{8}$	.40
8	$\frac{3}{4}$	23	2	$\frac{3}{8}$	.55
9	$1\frac{1}{8}$	23	2	$\frac{3}{8}$	.65
10	$\frac{7}{8}$	35	$2\frac{1}{8}$	$\frac{3}{8}$	.80
12	1	45	$2\frac{1}{4}$	$\frac{1}{2}$	1.00
15	$1\frac{1}{8}$	60	$2\frac{1}{2}$	$\frac{1}{2}$	1.35
18	$1\frac{1}{4}$	85	$2\frac{3}{4}$	$\frac{1}{2}$	1.90
20	$1\frac{3}{8}$	100	3	$\frac{1}{2}$	2.25
21	$1\frac{1}{2}$	120	3	$\frac{1}{2}$	2.70
22	$1\frac{5}{8}$	130	3	$\frac{1}{2}$	3.00
24	$1\frac{5}{8}$	150	$3\frac{1}{4}$	$\frac{1}{2}$	3.25
27	2	224	4	$\frac{3}{4}$	4.50
30	$2\frac{1}{8}$	252	4	$\frac{3}{4}$	5.50
33	$2\frac{1}{4}$	310	5	$1\frac{1}{4}$	6.25
36	$2\frac{1}{2}$	350	5	$1\frac{1}{4}$	7.00

DOUBLE STRENGTH PIPE

Calibre Inches	Thickness Inches	Weight per Foot Pounds	Depth of Sockets Inches	Annular Space Inches	Price per Foot
15	$1\frac{1}{4}$	75	$2\frac{1}{2}$	$\frac{1}{2}$	\$1.35
18	$1\frac{1}{2}$	118	$2\frac{3}{4}$	$\frac{1}{2}$	1.90
20	$1\frac{2}{3}$	138	3	$\frac{1}{2}$	2.25
21	$1\frac{3}{4}$	148	3	$\frac{1}{2}$	2.70
22	$1\frac{5}{6}$	157	3	$\frac{1}{2}$	3.00
24	2	190	$3\frac{1}{4}$	$\frac{1}{2}$	3.25
27	$2\frac{1}{4}$	265	4	$\frac{3}{4}$	4.50
30	$2\frac{1}{2}$	290	4	$\frac{3}{4}$	5.50
33	$2\frac{5}{8}$	335	5	$1\frac{1}{4}$	6.25
36	$2\frac{3}{4}$	375	5	$1\frac{1}{4}$	7.00

Discounts governing price 3 to 24 inches will not apply to 27 to 36 inches.

Approximate Weights, Dimensions, Etc.

DEEP AND WIDE SOCKETS, STANDARD

Calibre Inches	Thickness Inches	Weight per Foot Pounds	Depth of Sockets Inches	Annular Space Inches	Price per Foot
4	$\frac{1}{2}$	10	2	$\frac{1}{2}$	\$0.25
5	$\frac{5}{8}$	12	$2\frac{1}{2}$	$\frac{5}{8}$	.30
6	$\frac{5}{8}$	16	$2\frac{1}{2}$	$\frac{5}{8}$	.40
8	$\frac{3}{4}$	25	$2\frac{3}{4}$	$\frac{5}{8}$	.55
10	$\frac{7}{8}$	37	$2\frac{3}{4}$	$\frac{5}{8}$	.80
12	1	45	3	$\frac{5}{8}$	1.00
15	$1\frac{1}{8}$	70	3	$\frac{5}{8}$	1.35
18	$1\frac{1}{4}$	90	$3\frac{1}{4}$	$\frac{5}{8}$	1.90
20	$1\frac{3}{8}$	115	$3\frac{1}{2}$	$\frac{5}{8}$	2.25
21	$1\frac{1}{2}$	130	$3\frac{5}{8}$	$\frac{5}{8}$	2.70
22	$1\frac{5}{8}$	145	$3\frac{3}{4}$	$\frac{5}{8}$	3.00
24	$1\frac{5}{8}$	150	4	$\frac{5}{8}$	3.25

DEEP AND WIDE SOCKETS, DOUBLE STRENGTH

Calibre Inches	Thickness Inches	Weight per Foot Pounds	Depth of Sockets Inches	Annular Space Inches	Price per Foot
15	$1\frac{1}{4}$	75	3	$\frac{5}{8}$	\$1.35
18	$1\frac{1}{2}$	118	$3\frac{1}{4}$	$\frac{5}{8}$	1.90
20	$1\frac{2}{3}$	138	$3\frac{1}{2}$	$\frac{5}{8}$	2.25
21	$1\frac{3}{4}$	148	$3\frac{5}{8}$	$\frac{5}{8}$	2.70
22	$1\frac{5}{8}$	157	$3\frac{3}{4}$	$\frac{5}{8}$	3.00
24	2	190	4	$\frac{5}{8}$	3.25

The list price of Fittings is the same as on Standard Pipe Fittings.

Discounts governing price 2 to 24 inches will not apply to 27 to 36 inches.

Price List of Vitrified Salt-Glazed Sewer Pipe

ADOPTED BY THE EASTERN MANUFACTURERS MAY 2, 1910.

Calibre of Pipe Inches	Price per Foot	Elbows and Curves Each	Slants 1 Foot or less Per Foot Long Side	Increasers and Reducers Each	R. P. S. and Single H. H. Traps Each	Double H. H. Traps Each	Two-piece Traps Per Pair	Well Traps Each	Grease Traps with Bottom and Cover, Each	Channel Pipe Per Foot
3	\$ 0.20	\$ 0.60	\$ 0.60	\$ 0.80	\$ 1.60	\$ 1.80	.....	.....	.....	\$0.12
4	.25	.75	.75	1.00	2.00	2.25	.....	.....	.....	.15
5	.30	.90	.90	1.20	2.40	2.70	.....	.....	.....	.18
6	.40	1.20	1.20	1.60	3.20	3.60	\$ 4.20	\$ 2.40	.....	.24
8	.55	1.65	1.65	2.20	5.50	6.05	6.60	3.30	\$ 6.60	.33
9	.65	1.95	1.95	2.60	6.50	7.15	7.15	3.90	7.80	.39
10	.80	2.40	2.40	3.20	8.00	8.80	8.30	4.80	9.60	.48
12	1.00	3.00	3.00	4.00	15.00	16.00	12.75	.....	12.00	.60
15	1.35	4.05	4.05	5.40	.....	.....	18.75	.....	16.20	.81
18	1.90	5.70	5.70	7.60	.....	.....	.....	.....	20.40	1.14
20	2.25	6.75	6.75	9.00	.....	.....	.....	.....	.....	1.35
21	2.70	8.10	8.10	10.80	.....	.....	.....	.....	.....	1.62
22	3.00	9.00	9.00	12.00	.....	.....	.....	.....	.....	1.80
24	3.25	9.75	9.75	13.00	.....	.....	.....	.....	.....	1.95
27	4.50	13.50	13.50	18.00	.....	.....	.....	.....	.....	2.70
30	5.50	16.50	16.50	22.00	.....	.....	.....	.....	.....	3.30
33	6.25	18.75	18.75	25.00	.....	.....	.....	.....	.....	3.75
36	7.00	21.00	21.00	28.00	.....	.....	.....	.....	.....	4.20

Price List of Vitrified Salt-Glazed Sewer Pipe—Continued

BRANCHES

Calibre of Pipe Inches	1 or 2 Feet Long with Inlets up to and Including 12 Inches, Each	2½ or 3 Feet Long with Inlets up to and Including 12 Inches, Each	2½ or 3 Feet Long with Inlets up to and Including 12 Inches, Each	Double 2 Feet Long with Inlets up to and Including 12 Inches, Each	Double 2½ or 3 Feet Long with Inlets up to and Including 12 Inches, Each	Double 2½ or 3 Feet Long with Inlets 15 Inches or Larger, Each	Stoppers or Plugs Each	Flat Strainers Each	Perforated Pipe Per Foot
3	\$ 0.80	\$ 1.00	.....	\$ 1.00	\$ 1.20	.....	\$0.07	\$0.14	\$0.32
4	1.00	1.25	.....	1.25	1.50	.....	.08	.16	.40
5	1.20	1.50	.....	1.50	1.80	.....	.10	.20	.50
6	1.60	2.00	.....	2.00	2.40	.....	.13	.26	.60
8	2.20	2.75	.....	2.75	3.30	.....	.19	.38	1.00
9	2.60	3.25	.....	3.25	3.90	.....	.22	.44	1.20
10	3.20	4.00	.....	4.00	4.80	.....	.27	.54	1.50
12	4.00	5.00	.....	5.00	6.00	.....	.33	.67	2.00
15	5.40	6.75	.....	6.75	8.10	.....	.45	.90	2.70
18	7.60	9.50	\$9.45	9.50	11.40	\$10.80	.....	.....	3.40
20	9.00	11.25	13.30	11.25	13.50	15.20	.....	.....	3.40
21	10.80	13.50	15.75	13.50	16.20	18.00	.....	.....	4.50
22	12.00	15.00	18.90	15.00	18.00	21.60	.....	.....	5.00
24	13.00	16.25	21.00	16.25	19.50	24.00	.....	.....	5.50
27	.....	22.50	22.75	.....	27.00	26.00	.....	.....	6.50
30	.....	27.50	27.00	.....	33.00	36.00	.....	.....	8.50
33	.....	31.25	33.00	.....	37.50	44.00	.....	.....	11.00
36	.....	35.00	37.50	.....	42.00	50.00	.....	.....	12.50
			42.00	.....	42.00	56.00	.....	.....	14.00

Increases shall have sockets on small end. Reducers sockets on large end. No slant to be charged at less than one foot. Excess over one foot at proportionate rate. Discounts governing price of 2 to 24 inches will not apply on sizes 27 to 36 inches. Branches with inlets 15 inches and larger that cannot be made on main pipe in 2-foot lengths will be furnished in 2½-foot lengths or longer. Branches 2 feet long with inlets 15 inches or larger take list price of branches 2½ feet long, deducting price of 2 feet of pipe of the same size. Every shipment at the risk of the purchaser and no allowance for breakage.

Sewer Pipe and Fittings



Double Y



Double T



V Branch



Increaser



Reducer



Single H. H. Trap



Double H. H. Trap



Channel Pipe



S Trap



Socket Pipe



Running Trap



P Trap

Sewer Pipe and Fittings—Continued



Y Branch



$\frac{1}{8}$ Bend, 2 Feet Long



2 Foot Slant



$\frac{1}{8}$ Bend, 1 Foot Long



Elbow



Well Trap



1 Foot Slant



Cut Elbow



Square Elbow



Cut Curve



T Branch



Half Trap



Ring Pipe and Ring



Half Trap

PRICE LIST OF

Vitrified Slop and Closet Bowls

WITH OR WITHOUT STRAINERS



Slop Bowl



Closet Bowl

12 x 4	\$3.50
12 x 6	3.50
15 x 4	5.00
15 x 6	5.00



Grease Trap



Cellar Trap

Cellar Traps

9 x 4, with bottom, each.....	\$6.00
Without bottom, each.....	5.00
12 x 4, with bottom, each.....	9.00
Without bottom, each.....	6.00

Grease Traps

WITH BOTTOM AND COVER

8-inch, each.....	\$ 6.60
9-inch, each.....	7.80
10-inch, each.....	9.60
12-inch, each.....	12.00
15-inch, each.....	16.20
18-inch, each.....	20.40

Net Prices at the Various Discounts

SIZE	DESCRIPTION	LIST	50%	51%	52%
3 INCH 7 lbs.	Pipe, per foot.....	.20	.10	.09 $\frac{1}{2}$	.09 $\frac{1}{2}$
	Ys or Ts, 2 feet long ..	.80	.40	.39 $\frac{1}{2}$	.38 $\frac{1}{2}$
	Curves or Elbows....	.60	.30	.29 $\frac{1}{2}$	.28 $\frac{1}{2}$
	Traps	1 60	.80	.78 $\frac{1}{2}$	.76 $\frac{1}{2}$
4 INCH 9 lbs.	Pipe, per foot.....	.25	.12 $\frac{1}{2}$	.12 $\frac{1}{4}$	.12
	Ys or Ts, 2 feet long ..	1.00	.50	.49	.48
	Curves or Elbows .....	.75	.37 $\frac{1}{2}$	.36 $\frac{3}{4}$	.36
	Traps	2.00	1 00	.98	.96
5 INCH 12 lbs.	Pipe, per foot.....	.30	.15	.14 $\frac{7}{10}$	.14 $\frac{2}{5}$
	Ys or Ts, 2 feet long ..	1.20	.60	.58 $\frac{1}{2}$	.57 $\frac{1}{5}$
	Curves or Elbows .....	.90	.45	.44 $\frac{1}{10}$	.43 $\frac{1}{5}$
	Traps	2.40	1.20	1.17 $\frac{3}{5}$	1.15 $\frac{1}{5}$
6 INCH 15 lbs.	Pipe, per foot.....	.40	.20	.19 $\frac{3}{5}$	.19 $\frac{1}{5}$
	Ys or Ts, 2 feet long ..	1.60	.80	.78 $\frac{2}{5}$	.76 $\frac{1}{5}$
	Curves or Elbows	1.20	.60	.58 $\frac{1}{5}$	.57 $\frac{1}{5}$
	Traps	3.20	1.60	1 56 $\frac{1}{5}$	1 53 $\frac{1}{5}$
8 INCH 23 lbs.	Pipe, per foot.....	.55	.27 $\frac{1}{2}$	.26 $\frac{19}{20}$	.26
	Ys or Ts, 2 feet long ..	2.20	1.10	1 07 $\frac{1}{4}$	1 05 $\frac{1}{4}$
	Curves or Elbows....	1 65	.82 $\frac{1}{2}$	.80 $\frac{17}{20}$	.79 $\frac{1}{4}$
	Traps	5 50	2.75	2 69 $\frac{1}{2}$	2 64 $\frac{1}{2}$
9 INCH 28 lbs.	Pipe, per foot.....	.65	.32 $\frac{1}{2}$	.31 $\frac{11}{20}$	.31 $\frac{1}{5}$
	Ys or Ts, 2 feet long ..	2.60	1 30	1 27 $\frac{1}{4}$	1 24 $\frac{1}{4}$
	Curves or Elbows	1.95	.97 $\frac{1}{2}$	.95 $\frac{11}{20}$	.93 $\frac{3}{5}$
	Traps ..	6.50	3.25	3 18 $\frac{1}{2}$	3 12 $\frac{1}{2}$
10 INCH 35 lbs.	Pipe, per foot.....	.80	.40	.39 $\frac{1}{2}$	.38 $\frac{1}{2}$
	Ys or Ts, 2 feet long ..	3.20	1.60	1.56 $\frac{1}{4}$	1 53 $\frac{1}{4}$
	Curves or Elbows	2.40	1.20	1.17 $\frac{3}{5}$	1.15 $\frac{1}{5}$
	Traps	8.00	4.00	3.92	3.84
12 INCH 45 lbs.	Pipe, per foot.....	1.00	.50	.49	.48
	Ys or Ts, 2 feet long ..	4.00	2.00	1.96	1.92
	Curves or Elbows	3.00	1.50	1.47	1.44
	Traps	15.00	7.50	7 35	7 20
15 INCH S.S. 60 lbs.	Pipe, per foot.....	1.35	.67 $\frac{1}{2}$	.66 $\frac{3}{20}$	.64 $\frac{1}{5}$
	Ys or Ts, 2 feet long ..	5.40	2 70	2.64 $\frac{3}{5}$	2 59 $\frac{1}{5}$
	Inlets smaller than 15 in	4 05	2.02 $\frac{1}{2}$	1.98 $\frac{9}{20}$	1 94 $\frac{1}{5}$
	Curves or Elbows				
18 INCH S.S. 85 lbs.	Pipe, per foot.....	1.90	.95	.93 $\frac{1}{10}$	.91 $\frac{1}{5}$
	Ys or Ts, 2 feet long ..	7.60	3.80	3.72 $\frac{3}{5}$	3.64 $\frac{1}{4}$
	Inlets smaller than 15 in	5 70	2.85	2 79 $\frac{1}{10}$	2 73 $\frac{1}{5}$
	Curves or Elbows				
20 INCH S.S. 100 lbs.	Pipe, per foot.....	2.25	1.12 $\frac{1}{2}$	1.10 $\frac{1}{4}$	1 08
	Ys or Ts, 2 feet long ..	9.00	4 50	4 41	4 32
	Inlets smaller than 15 in	6 75	3.37 $\frac{1}{2}$	3.30 $\frac{3}{4}$	3 24
	Curves or Elbows....				
21 INCH S.S. 120 lbs.	Pipe, per foot.....	2.70	1.35	1 32 $\frac{3}{10}$	1 29 $\frac{3}{5}$
	Ys or Ts, 2 feet long ..	10.80	5.40	5 29 $\frac{1}{5}$	5 18 $\frac{2}{5}$
	Inlets smaller than 15 in	8.10	4 05	3.96 $\frac{9}{10}$	3 88 $\frac{1}{5}$
	Curves or Elbows....				
22 INCH S.S. 130 lbs.	Pipe, per foot.....	3 00	1 50	1.47	1.44
	Ys or Ts, 2 feet long ..	12 00	6 00	5.88	5.76
	Inlets smaller than 15 in	9 00	4.50	4.41	4.32
	Curves or Elbows				
24 INCH S.S. 150 lbs.	Pipe, per foot.....	3.25	1.62 $\frac{1}{2}$	1.59 $\frac{1}{4}$	1.56
	Ys or Ts, 2 feet long ..	13.00	6.50	6.37	6.24
	Inlets smaller than 15 in	9 75	4 87 $\frac{1}{2}$	4.77 $\frac{3}{4}$	4 68
	Curves or Elbows....				

Branches with inlets 15 inches or larger, extra price

For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

53%	54%	55%	56%	57%	58%	SIZE
.09 ² / ₅ .37 ² / ₅ 28 ² / ₅ 75 ² / ₅	.09 ¹ / ₅ .36 ¹ / ₅ 27 ¹ / ₅ 73 ¹ / ₅	.09 .36 27 72	.08 ¹ / ₅ .35 ¹ / ₅ 26 ¹ / ₅ 70 ¹ / ₅	.08 ¹ / ₅ .34 ¹ / ₅ 25 ¹ / ₅ 68 ¹ / ₅	.08 ² / ₅ .33 ² / ₅ 25 ² / ₅ 67 ² / ₅	3 INCH 7 lbs.
.11 ³ / ₄ .47 35 ¹ / ₄ 94	.11 ¹ / ₂ .46 34 ¹ / ₂ 92	.11 ¹ / ₄ .45 33 ³ / ₄ 90	.11 .44 33 88	.10 ³ / ₄ .43 32 ¹ / ₄ 86	.10 ¹ / ₂ .42 31 ¹ / ₂ 84	4 INCH 9 lbs.
14 ¹ / ₁₀ .56 ¹ / ₅ .42 ³ / ₁₀ 1.12 ⁴ / ₅	13 ¹ / ₅ .55 ¹ / ₅ .41 ¹ / ₅ 1.10 ¹ / ₅	13 ¹ / ₂ .54 40 ¹ / ₂ 1.08	13 ¹ / ₁₀ .52 39 ¹ / ₁₀ 1.05 ¹ / ₅	12 ⁹ / ₁₀ .51 ¹ / ₅ 38 ⁷ / ₁₀ 1.03 ¹ / ₅	12 ³ / ₅ .50 ² / ₅ 37 ² / ₅ 1.00 ¹ / ₅	5 INCH 12 lbs.
.18 ⁴ / ₅ .75 ¹ / ₅ .56 ¹ / ₅ 1.50 ² / ₅	.18 ³ / ₅ .73 ³ / ₅ .55 ¹ / ₅ 1.47 ¹ / ₅	.18 .72 .54 1.44	.17 ¹ / ₅ .70 ¹ / ₅ .52 1.40 ¹ / ₅	.17 ¹ / ₅ .68 ¹ / ₅ .51 ¹ / ₅ 1.37 ¹ / ₅	.16 ⁴ / ₅ .67 ¹ / ₅ .50 ² / ₅ 1.34 ² / ₅	6 INCH 15 lbs.
25 ¹ / ₁₀ 1.03 ² / ₅ .77 ¹ / ₁₀ 2.58 ¹ / ₂	25 ³ / ₁₀ 1.01 ¹ / ₅ .75 ⁹ / ₁₀ 2.53 ¹ / ₁₀	24 ³ / ₄ .99 74 ¹ / ₄ 2.47 ¹ / ₂	24 ¹ / ₁₀ .96 72 ¹ / ₁₀ 2.42 ¹ / ₁₀	23 ¹ / ₁₀ .94 ³ / ₁₀ 70 ¹ / ₁₀ 2.36 ¹ / ₂	23 ¹ / ₁₀ 92 ² / ₅ 69 ¹ / ₁₀ 2.31 ¹ / ₁₀	8 INCH 23 lbs.
30 ¹ / ₁₀ 1.22 ¹ / ₁₀ .91 ¹ / ₁₀ 3.05 ¹ / ₂	29 ⁹ / ₁₀ 1.19 ³ / ₅ .89 ⁷ / ₁₀ 2.99 ¹ / ₁₀	29 ¹ / ₄ 1.17 ¹ / ₅ .87 ³ / ₄ 2.92 ¹ / ₂	28 ³ / ₁₀ 1.14 ¹ / ₅ .85 ¹ / ₅ 2.86 ¹ / ₁₀	27 ⁹ / ₁₀ 1.11 ¹ / ₅ .83 ¹ / ₁₀ 2.79 ¹ / ₂	27 ³ / ₁₀ 1.09 ¹ / ₅ .81 ⁹ / ₁₀ 2.73 ¹ / ₁₀	9 INCH 28 lbs.
.37 ² / ₅ 1.50 ² / ₅ 1.12 ⁴ / ₅ 3.76	.36 ¹ / ₅ 1.47 ¹ / ₅ 1.10 ¹ / ₅ 3.68	.36 1.44 1.08 3.60	.35 ¹ / ₅ 1.40 ¹ / ₅ 1.05 ¹ / ₅ 3.52	.34 ² / ₅ 1.37 ³ / ₅ 1.03 ¹ / ₅ 3.44	.33 ³ / ₅ 1.34 ⁴ / ₅ 1.00 ¹ / ₅ 3.36	10 INCH 35 lbs.
.47 1.88 1.41 7.05	.46 1.84 1.38 6.90	.45 1.80 1.35 6.75	.44 1.76 1.32 6.60	.43 1.72 1.29 6.45	.42 1.68 1.26 6.30	12 INCH 45 lbs.
.63 ⁹ / ₁₀ 2.53 ⁴ / ₅ 1.90 ⁷ / ₁₀ .89 ³ / ₁₀	.62 ¹ / ₁₀ 2.48 ³ / ₅ 1.86 ² / ₁₀ .87 ² / ₅	.60 ³ / ₄ 2.43 1.82 ¹ / ₄ .85 ¹ / ₂	.59 ² / ₅ 2.37 ³ / ₅ 1.78 ¹ / ₅ .83 ³ / ₅	.58 ¹ / ₁₀ 2.32 ¹ / ₅ 1.74 ³ / ₁₀ .81 ⁷ / ₁₀	.56 ⁷ / ₁₀ 2.26 ¹ / ₅ 1.70 ¹ / ₁₀ .79 ¹ / ₅	15 INCH D. S. 75 lbs.
3.57 ¹ / ₅ 2.67 ⁹ / ₁₀ 1.05 ³ / ₄	3.49 ³ / ₅ 2.62 ¹ / ₂ 1.03 ¹ / ₂	3.42 2.56 ¹ / ₅ 1.01 ¹ / ₄	3.34 ² / ₅ 2.50 ⁴ / ₅ .99	3.26 ⁴ / ₅ 2.45 ¹ / ₁₀ .96 ³ / ₄	3.19 ¹ / ₅ 2.39 ² / ₅ .94 ¹ / ₂	18 INCH D. S. 118 lbs.
4.23 3.17 ¹ / ₄ 1.26 ⁹ / ₁₀	4.14 3.10 ¹ / ₂ 1.24 ¹ / ₅	4.05 3.03 ³ / ₄ 1.21 ¹ / ₂	3.96 2.97 1.18 ⁴ / ₅	3.87 2.90 ¹ / ₄ 1.16 ¹ / ₁₀	3.78 2.83 ¹ / ₂ 1.13 ² / ₅	20 INCH D. S. 138 lbs.
5.07 ³ / ₅ 3.80 ⁷ / ₁₀ 1.41	4.96 ⁴ / ₅ 3.72 ³ / ₅ 1.38	4.86 3.64 ¹ / ₂ 1.35	4.75 ¹ / ₅ 3.56 ² / ₅ 1.32	4.64 ² / ₅ 3.48 ³ / ₁₀ 1.29	4.53 ³ / ₅ 3.40 ¹ / ₅ 1.26	21 INCH D. S. 148 lbs.
5.64 4.23 1.52 ³ / ₄	5.52 4.14 1.49 ¹ / ₂	5.40 4.05 1.46 ¹ / ₄	5.28 3.96 1.43	5.16 3.87 1.39 ³ / ₄	5.04 3.78 1.36 ¹ / ₂	22 INCH D. S. 157 lbs.
6.11 4.58 ¹ / ₄	5.98 4.48 ¹ / ₂	5.85 4.38 ³ / ₄	5.72 4.29	5.59 4.19 ¹ / ₄	5.46 4.09 ¹ / ₂	24 INCH D. S. 190 lbs.

All branches and traps with more than one inlet, extra price
For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

SIZE	DESCRIPTION	LIST	59%	60%	61%
3 INCH 7 lbs.	Pipe, per foot.....	.20	.08 $\frac{1}{5}$	.08	.07 $\frac{1}{5}$
	Ys or Ts, 2 feet long..	.80	.32 $\frac{1}{5}$	.32	.31 $\frac{1}{5}$
	Curves or Elbows....	.60	.24 $\frac{3}{5}$	.24	.23 $\frac{3}{5}$
	Traps.....	1.60	.65 $\frac{3}{5}$	.64	.62 $\frac{3}{5}$
4 INCH 9 lbs.	Pipe, per foot.....	.25	.10 $\frac{1}{4}$	.10	.09 $\frac{3}{4}$
	Ys or Ts, 2 feet long..	1.00	.41	.40	.39
	Curves or Elbows....	.75	.30 $\frac{3}{4}$	.30	.29 $\frac{1}{4}$
	Traps.....	2.00	.82	.80	.78
5 INCH 12 lbs.	Pipe, per foot.....	.30	.12 $\frac{3}{10}$	.12	.11 $\frac{7}{10}$
	Ys or Ts, 2 feet long..	1.20	.49 $\frac{1}{5}$	.48	.46 $\frac{4}{5}$
	Curves or Elbows....	.90	.36 $\frac{9}{10}$	.36	.35 $\frac{1}{10}$
	Traps.....	2.40	.98 $\frac{2}{5}$	.96	.93 $\frac{3}{5}$
6 INCH 15 lbs.	Pipe, per foot.....	.40	.16 $\frac{2}{5}$	.16	.15 $\frac{3}{5}$
	Ys or Ts, 2 feet long..	1.60	.65 $\frac{3}{5}$	.64	.62 $\frac{3}{5}$
	Curves or Elbows....	1.20	.49 $\frac{1}{5}$	.48	.46 $\frac{4}{5}$
	Traps.....	3.20	1.31 $\frac{1}{5}$	1.28	1.24 $\frac{1}{5}$
8 INCH 23 lbs.	Pipe, per foot.....	.55	.22 $\frac{1}{2}$	.22	.21 $\frac{9}{10}$
	Ys or Ts, 2 feet long..	2.20	.90 $\frac{1}{5}$	.88	.85 $\frac{4}{5}$
	Curves or Elbows....	1.65	.67 $\frac{1}{2}$	.66	.64 $\frac{7}{10}$
	Traps.....	5.50	2.25 $\frac{1}{2}$	2.20	2.14 $\frac{1}{2}$
9 INCH 28 lbs.	Pipe, per foot.....	.65	.26 $\frac{1}{2}$	.26	.25 $\frac{7}{10}$
	Ys or Ts, 2 feet long..	2.60	1.06 $\frac{3}{5}$	1.04	1.01 $\frac{2}{5}$
	Curves or Elbows....	1.95	.79 $\frac{3}{5}$	.78	.76 $\frac{3}{10}$
	Traps.....	6.50	2.66 $\frac{1}{2}$	2.60	2.53 $\frac{1}{2}$
10 INCH 35 lbs.	Pipe, per foot.....	.80	.32 $\frac{1}{5}$	.32	.31 $\frac{1}{5}$
	Ys or Ts, 2 feet long..	3.20	1.31 $\frac{1}{5}$	1.28	1.24 $\frac{1}{5}$
	Curves or Elbows....	2.40	.98 $\frac{2}{5}$	.96	.93 $\frac{3}{5}$
	Traps.....	8.00	3.28	3.20	3.12
12 INCH 45 lbs.	Pipe, per foot.....	1.00	.41	.40	.39
	Ys or Ts, 2 feet long..	4.00	1.64	1.60	1.56
	Curves or Elbows....	3.00	1.23	1.20	1.17
	Traps.....	15.00	6.15	6.00	5.85
15 INCH S.S. 60 lbs.	Pipe, per foot.....	1.35	.55 $\frac{7}{10}$	.54	.52 $\frac{3}{10}$
	Ys or Ts, 2 feet long..				
	Inlets smaller than 15 in.	5.40	2.21 $\frac{2}{5}$	2.16	2.10 $\frac{3}{5}$
	Curves or Elbows	4.05	1.66 $\frac{2}{10}$	1.62	1.57 $\frac{2}{10}$
18 INCH S.S. 85 lbs.	Pipe, per foot.....	1.90	.77 $\frac{9}{10}$	.76	.74 $\frac{1}{10}$
	Ys or Ts, 2 feet long..				
	Inlets smaller than 15 in.	7.60	3.11 $\frac{3}{5}$	3.04	2.96 $\frac{2}{5}$
	Curves or Elbows....	5.70	2.33 $\frac{7}{10}$	2.28	2.22 $\frac{3}{10}$
20 INCH S.S. 100 lbs.	Pipe, per foot.....	2.25	.92 $\frac{1}{4}$	.90	.87 $\frac{3}{4}$
	Ys or Ts, 2 feet long..				
	Inlets smaller than 15 in.	9.00	3.69	3.60	3.51
	Curves or Elbows....	6.75	2.74 $\frac{3}{4}$	2.70	2.63 $\frac{1}{4}$
21 INCH S.S. 120 lbs.	Pipe, per foot.....	2.70	1.10 $\frac{7}{10}$	1.08	1.05 $\frac{3}{10}$
	Ys or Ts, 2 feet long..				
	Inlets smaller than 15 in.	10.80	4.42 $\frac{1}{5}$	4.32	4.21 $\frac{1}{5}$
	Curves or Elbows....	8.10	3.32 $\frac{1}{10}$	3.24	3.15 $\frac{9}{10}$
22 INCH S.S. 130 lbs.	Pipe, per foot.....	3.00	1.23	1.20	1.17
	Ys or Ts, 2 feet long..				
	Inlets smaller than 15 in.	12.00	4.92	4.80	4.68
	Curves or Elbows....	9.00	3.39	3.60	3.51
24 INCH S.S. 150 lbs.	Pipe, per foot.....	3.25	1.33 $\frac{1}{4}$	1.30	1.26 $\frac{3}{4}$
	Ys or Ts, 2 feet long..				
	Inlets smaller than 15 in.	13.00	5.33	5.20	5.07
	Curves or Elbows....	9.75	3.99 $\frac{3}{4}$	3.90	3.80 $\frac{1}{4}$

Branches with inlets 15 inches or larger, extra price

For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

62%	63%	64%	65%	66%	67%	SIZE
.07 ¹ / ₂ .30 ¹ / ₂ .22 ¹ / ₂ .60 ¹ / ₂	.07 ¹ / ₂ .29 ¹ / ₂ .22 ¹ / ₂ .59 ¹ / ₂	.07 ¹ / ₂ .28 ¹ / ₂ .21 ¹ / ₂ .57 ¹ / ₂	.07 .28 .21 .56	.06 ¹ / ₂ .27 ¹ / ₂ .20 ¹ / ₂ .54 ¹ / ₂	.06 ¹ / ₂ .26 ¹ / ₂ .19 ¹ / ₂ .52 ¹ / ₂	3 INCH 7 lbs.
.09 ¹ / ₂ .38 ¹ / ₂ .28 ¹ / ₂ .76 ¹ / ₂	.09 ¹ / ₄ .37 ¹ / ₄ .27 ³ / ₄ .74 ¹ / ₄	.09 .36 .27 .72	.08 ³ / ₄ .35 .26 ¹ / ₄ .70 ¹ / ₄	.08 ¹ / ₂ .34 .25 ¹ / ₂ .68 ¹ / ₂	.08 ¹ / ₄ .33 .24 ³ / ₄ .66 ¹ / ₄	4 INCH 9 lbs.
.11 ¹ / ₂ .45 ¹ / ₂ .34 ¹ / ₂ .91 ¹ / ₂	.11 ¹ / ₀ .44 ¹ / ₂ .33 ³ / ₀ .88 ¹ / ₂	.10 ¹ / ₄ .43 ¹ / ₂ .32 ¹ / ₂ .86 ¹ / ₂	.10 ¹ / ₂ .42 .31 ¹ / ₂ .84 ¹ / ₂	.10 ¹ / ₀ .40 ¹ / ₂ .30 ¹ / ₂ .81 ¹ / ₂	.09 ¹ / ₀ .39 ¹ / ₂ .29 ¹ / ₀ .79 ¹ / ₂	5 INCH 12 lbs.
.15 ¹ / ₂ .60 ¹ / ₂ .45 ¹ / ₂ 1 21 ¹ / ₂	.14 ¹ / ₂ .59 ¹ / ₂ .44 ¹ / ₂ 1 18 ¹ / ₂	.14 ¹ / ₂ .57 ¹ / ₂ .43 ¹ / ₂ 1 15 ¹ / ₂	.14 .56 .42 1 12 ¹ / ₂	.13 ¹ / ₂ .54 ¹ / ₂ .40 ¹ / ₂ 1 08 ¹ / ₂	.13 ¹ / ₂ .52 ¹ / ₂ .39 ¹ / ₂ 1 05 ¹ / ₂	6 INCH 15 lbs.
.20 ¹ / ₀ .83 ¹ / ₂ .62 ¹ / ₀ 2 09 ¹ / ₂	.20 ¹ / ₀ .81 ¹ / ₂ .61 ¹ / ₀ 2 03 ¹ / ₂	.19 ¹ / ₄ .79 ¹ / ₂ .59 ¹ / ₂ 1 98 ¹ / ₂	.19 ¹ / ₄ .77 ¹ / ₂ .57 ³ / ₄ 1 92 ¹ / ₂	.18 ⁷ / ₀ .74 ¹ / ₂ .56 ¹ / ₀ 1 87 ¹ / ₂	.18 ³ / ₀ .72 ¹ / ₂ .54 ⁹ / ₀ 1 81 ¹ / ₂	8 INCH 23 lbs.
.24 ¹ / ₀ .98 ¹ / ₂ .74 ¹ / ₀ 2 47 ¹ / ₂	.24 ¹ / ₀ .96 ¹ / ₂ .72 ¹ / ₀ 2 40 ¹ / ₂	.23 ¹ / ₂ .93 ¹ / ₂ .70 ¹ / ₀ 2 34 ¹ / ₂	.22 ³ / ₄ .91 .68 ¹ / ₄ 2 27 ¹ / ₂	.22 ¹ / ₀ .88 ¹ / ₂ .66 ¹ / ₀ 2 21 ¹ / ₂	.21 ⁹ / ₀ .85 ¹ / ₂ .64 ⁷ / ₀ 2 14 ¹ / ₂	9 INCH 28 lbs.
.30 ¹ / ₂ 1 21 ¹ / ₂ .91 ¹ / ₂ 3 04 ¹ / ₂	.29 ¹ / ₂ 1 18 ¹ / ₂ .88 ¹ / ₂ 2 96 ¹ / ₂	.28 ¹ / ₂ 1 15 ¹ / ₂ .86 ¹ / ₂ 2 88 ¹ / ₂	.28 1 12 .84 2 80 ¹ / ₂	.27 ¹ / ₂ 1 08 ¹ / ₂ .81 ¹ / ₂ 2 72 ¹ / ₂	.26 ¹ / ₂ 1 05 ¹ / ₂ .79 ¹ / ₂ 2 64 ¹ / ₂	10 INCH 35 lbs.
.38 1 52 1 14 5 70 ¹ / ₂	.37 1 48 1 11 5 55 ¹ / ₂	.36 1 44 1 08 5 40 ¹ / ₂	.35 1 40 1 05 5 25 ¹ / ₂	.34 1 36 1 02 5 10 ¹ / ₂	.33 1 32 .99 4 95 ¹ / ₂	12 INCH 45 lbs.
.51 ¹ / ₀ 2 05 ¹ / ₂ 1 53 ¹ / ₀ .72 ¹ / ₂	.49 ¹ / ₀ 1 99 ¹ / ₂ 1 49 ¹ / ₀ .70 ¹ / ₀	.48 ¹ / ₂ 1 94 ¹ / ₂ 1 45 ¹ / ₂ .68 ¹ / ₂	.47 ¹ / ₄ 1 89 1 41 ³ / ₄ .66 ¹ / ₂	.45 ¹ / ₀ 1 83 ¹ / ₂ 1 37 ¹ / ₀ .64 ¹ / ₂	.44 ¹ / ₀ 1 78 ¹ / ₂ 1 33 ¹ / ₀ .62 ¹ / ₀	15 INCH D. S. 75 lbs.
.85 ¹ / ₂ 3 42 2 56 ¹ / ₂ 1 02 ¹ / ₂	.83 ¹ / ₄ 3 33 2 49 ³ / ₄ .99 ¹ / ₀	.81 3 24 2 43 .97 ¹ / ₂	.78 ³ / ₄ 3 15 2 36 ¹ / ₄ .94 ¹ / ₂	.76 ¹ / ₂ 3 06 2 29 ¹ / ₂ .91 ¹ / ₂	.74 ¹ / ₄ 2 97 2 22 ³ / ₄ .89 ¹ / ₀	18 INCH D. S. 118 lbs.
.85 ¹ / ₂ 3 42 2 56 ¹ / ₂ 1 02 ¹ / ₂	.83 ¹ / ₄ 3 33 2 49 ³ / ₄ .99 ¹ / ₀	.81 3 24 2 43 .97 ¹ / ₂	.78 ³ / ₄ 3 15 2 36 ¹ / ₄ .94 ¹ / ₂	.76 ¹ / ₂ 3 06 2 29 ¹ / ₂ .91 ¹ / ₂	.74 ¹ / ₄ 2 97 2 22 ³ / ₄ .89 ¹ / ₀	20 INCH D. S. 138 lbs.
.85 ¹ / ₂ 3 42 2 56 ¹ / ₂ 1 02 ¹ / ₂	.83 ¹ / ₄ 3 33 2 49 ³ / ₄ .99 ¹ / ₀	.81 3 24 2 43 .97 ¹ / ₂	.78 ³ / ₄ 3 15 2 36 ¹ / ₄ .94 ¹ / ₂	.76 ¹ / ₂ 3 06 2 29 ¹ / ₂ .91 ¹ / ₂	.74 ¹ / ₄ 2 97 2 22 ³ / ₄ .89 ¹ / ₀	21 INCH D. S. 148 lbs.
.85 ¹ / ₂ 3 42 2 56 ¹ / ₂ 1 02 ¹ / ₂	.83 ¹ / ₄ 3 33 2 49 ³ / ₄ .99 ¹ / ₀	.81 3 24 2 43 .97 ¹ / ₂	.78 ³ / ₄ 3 15 2 36 ¹ / ₄ .94 ¹ / ₂	.76 ¹ / ₂ 3 06 2 29 ¹ / ₂ .91 ¹ / ₂	.74 ¹ / ₄ 2 97 2 22 ³ / ₄ .89 ¹ / ₀	22 INCH D. S. 157 lbs.
.85 ¹ / ₂ 3 42 2 56 ¹ / ₂ 1 02 ¹ / ₂	.83 ¹ / ₄ 3 33 2 49 ³ / ₄ .99 ¹ / ₀	.81 3 24 2 43 .97 ¹ / ₂	.78 ³ / ₄ 3 15 2 36 ¹ / ₄ .94 ¹ / ₂	.76 ¹ / ₂ 3 06 2 29 ¹ / ₂ .91 ¹ / ₂	.74 ¹ / ₄ 2 97 2 22 ³ / ₄ .89 ¹ / ₀	24 INCH D. S. 190 lbs.

All branches and traps with more than one inlet, extra price.
For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

SIZE	DESCRIPTION	LIST	68%	69%	70%
3 INCH 7 lbs.	Pipe, per foot.....	.20	.06 $\frac{2}{5}$	.06 $\frac{1}{5}$	.06
	Ys or Ts, 2 feet long	.80	.25 $\frac{2}{5}$	.24 $\frac{1}{5}$	.24
	Curves or Elbows....	.60	.19 $\frac{1}{5}$	.18 $\frac{3}{5}$	.18
	Traps.....	1 60	.51 $\frac{1}{5}$	.49 $\frac{3}{5}$	.48
4 INCH 9 lbs.	Pipe, per foot.....	.25	.08	.07 $\frac{3}{4}$	.07 $\frac{1}{2}$
	Ys or Ts, 2 feet long...	1 00	.32	.31	.30
	Curves or Elbows....	.75	.24	.23 $\frac{1}{4}$	.22 $\frac{1}{2}$
	Traps.....	2 00	.64	.62	.60
5 INCH 12 lbs.	Pipe, per foot.....	.30	.09 $\frac{3}{5}$	.09 $\frac{3}{10}$	.09
	Ys or Ts, 2 feet long...	1 20	.38	.37 $\frac{1}{5}$	.36
	Curves or Elbows....	.90	.28 $\frac{4}{5}$	.27 $\frac{9}{10}$	.27
	Traps.....	2 40	.76 $\frac{4}{5}$	.74 $\frac{2}{5}$	.72
6 INCH 15 lbs.	Pipe, per foot.....	.40	.12 $\frac{2}{5}$	.12 $\frac{2}{5}$	.12
	Ys or Ts, 2 feet long...	1 60	.51 $\frac{1}{5}$	.49 $\frac{3}{5}$	.48
	Curves or Elbows....	1 20	.38	.37 $\frac{1}{5}$	.36
	Traps.....	3 20	1 02 $\frac{2}{5}$	.99 $\frac{1}{5}$	.96
8 INCH 23 lbs.	Pipe, per foot.....	.55	.17 $\frac{2}{5}$	.17 $\frac{1}{10}$	.16 $\frac{1}{2}$
	Ys or Ts, 2 feet long...	2 20	.70	.68 $\frac{1}{5}$	.66
	Curves or Elbows....	1 65	.52	.51 $\frac{3}{10}$	.49 $\frac{1}{2}$
	Traps.....	5 50	1 76	1 70 $\frac{1}{2}$	1 65
9 INCH 28 lbs.	Pipe, per foot.....	.65	.20 $\frac{3}{5}$	.20 $\frac{3}{10}$	.19 $\frac{1}{2}$
	Ys or Ts, 2 feet long...	2 60	.83	.80 $\frac{3}{5}$	.78
	Curves or Elbows....	1 95	.62	.60 $\frac{9}{10}$	.58 $\frac{1}{2}$
	Traps.....	6 50	2 08	2 01 $\frac{1}{2}$	1 95
10 INCH 35 lbs.	Pipe, per foot.....	.80	.25 $\frac{3}{5}$	.24 $\frac{4}{5}$	.24
	Ys or Ts, 2 feet long...	3 20	1 02	.99 $\frac{1}{5}$	.96
	Curves or Elbows....	2 40	.76 $\frac{4}{5}$	.74 $\frac{4}{5}$	.72
	Traps.....	8 00	2 56	2 48	2 40
12 INCH 45 lbs.	Pipe, per foot.....	1 00	.32	.31	.30
	Ys or Ts, 2 feet long...	4 00	1 28	1 24	1 20
	Curves or Elbows....	3 00	.96	.93	.90
	Traps.....	15 00	4 80	4 65	4 50
15 INCH S.S. 60 lbs	Pipe, per foot.....	1 35	.43 $\frac{1}{5}$	.41 $\frac{7}{10}$	.40 $\frac{1}{2}$
	Ys or Ts, 2 feet long	5 40	1 72 $\frac{4}{5}$	1 67 $\frac{2}{5}$	1 62
	Curves or Elbows....	4 05	1 29 $\frac{2}{5}$	1 25 $\frac{1}{10}$	1 21 $\frac{1}{2}$
	Pipe, per foot.....	1 90	.60 $\frac{4}{5}$	.58 $\frac{9}{10}$	.57
18 INCH S.S. 85 lbs	Ys or Ts, 2 feet long	7 60	2 43 $\frac{1}{5}$	2 35 $\frac{3}{5}$	2 28
	Curves or Elbows....	5 70	1 82 $\frac{2}{5}$	1 76 $\frac{7}{10}$	1 71
	Pipe, per foot.....	2 25	.72	.69 $\frac{3}{4}$	.67 $\frac{1}{2}$
	Ys or Ts, 2 feet long...	9 00	2 88	2 79	2 70
20 INCH S.S. 100 lbs.	Inlets smaller than 15 in.	6 75	2 16	2 09 $\frac{1}{4}$	2 02 $\frac{1}{2}$
	Curves or Elbows....	2 70	.86 $\frac{2}{5}$	.83 $\frac{7}{10}$	.81
	Ys or Ts, 2 feet long...	10 80	3 45 $\frac{3}{5}$	3 34 $\frac{4}{5}$	3 24
	Inlets smaller than 15 in.	8 10	2 59 $\frac{1}{5}$	2 51 $\frac{1}{10}$	2 43
21 INCH S.S. 120 lbs	Curves or Elbows....	3 00	.96	.93	.90
	Pipe, per foot.....	12 00	3 84	3 72	3 60
	Ys or Ts, 2 feet long...	9 00	2 88	2 79	2 70
	Inlets smaller than 15 in.	3 25	1 04	1 00 $\frac{3}{4}$	.97 $\frac{1}{2}$
22 INCH S.S. 130 lbs.	Ys or Ts, 2 feet long...	13 00	4 16	4 03	3 90
	Curves or Elbows....	9 75	3 12	3 02 $\frac{1}{4}$	2 92 $\frac{1}{2}$
	Pipe, per foot.....	3 25	1 04	1 00 $\frac{3}{4}$	.97 $\frac{1}{2}$
	Ys or Ts, 2 feet long...	13 00	4 16	4 03	3 90
24 INCH S.S. 150 lbs.	Inlets smaller than 15 in.	9 75	3 12	3 02 $\frac{1}{4}$	2 92 $\frac{1}{2}$
	Curves or Elbows....	9 75	3 12	3 02 $\frac{1}{4}$	2 92 $\frac{1}{2}$

Branches with inlets 15 inches or larger, extra price

For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

71%	72%	73%	74%	75%	76%	SIZE
.05 $\frac{1}{2}$.23 $\frac{1}{2}$.17 $\frac{1}{2}$ 46 $\frac{1}{2}$	.05 $\frac{1}{2}$.22 $\frac{1}{2}$.16 $\frac{1}{2}$ 44 $\frac{1}{2}$	.05 $\frac{1}{2}$.21 $\frac{1}{2}$.16 $\frac{1}{2}$ 43 $\frac{1}{2}$	.05 $\frac{1}{2}$.20 $\frac{1}{2}$.15 $\frac{1}{2}$ 41 $\frac{1}{2}$	.05 .20 .15 .40	.04 $\frac{1}{2}$.19 $\frac{1}{2}$.14 $\frac{1}{2}$.38 $\frac{1}{2}$	3 INCH 7 lbs.
.07 $\frac{1}{4}$.29 .21 $\frac{3}{4}$ 58 $\frac{1}{4}$	.07 .28 .21 56	.06 $\frac{3}{4}$.27 .20 $\frac{1}{4}$ 54	.06 $\frac{1}{2}$.26 .19 $\frac{1}{2}$ 52	.06 $\frac{1}{4}$.25 .18 $\frac{3}{4}$ 50	.06 .24 .18 48	4 INCH 9 lbs.
.08 $\frac{7}{10}$.34 $\frac{1}{2}$.26 $\frac{1}{10}$ 69 $\frac{3}{5}$	.08 $\frac{2}{5}$.33 $\frac{1}{2}$.25 $\frac{1}{10}$ 67 $\frac{1}{5}$	.08 $\frac{1}{10}$.32 $\frac{1}{2}$.24 $\frac{3}{10}$ 64 $\frac{1}{5}$	.07 $\frac{1}{5}$.31 $\frac{1}{2}$.23 $\frac{2}{5}$ 62 $\frac{1}{5}$	.07 $\frac{1}{2}$.30 .22 $\frac{1}{2}$ 60	.07 $\frac{1}{10}$.28 $\frac{1}{2}$.21 $\frac{1}{5}$ 57 $\frac{3}{5}$	5 INCH 12 lbs.
.11 $\frac{3}{5}$.46 $\frac{1}{2}$.34 $\frac{1}{5}$ 92 $\frac{1}{5}$	.11 $\frac{1}{5}$.44 $\frac{1}{2}$.33 $\frac{1}{5}$ 89 $\frac{1}{5}$	.10 $\frac{2}{5}$.43 $\frac{1}{2}$.32 $\frac{1}{5}$ 86 $\frac{1}{5}$	.10 $\frac{2}{5}$.41 $\frac{1}{2}$.31 $\frac{1}{5}$ 83 $\frac{1}{5}$	.10 .40 .30 80	.09 $\frac{3}{5}$.38 $\frac{1}{2}$.28 $\frac{1}{5}$ 76 $\frac{1}{5}$	6 INCH 15 lbs.
.15 $\frac{1}{2}$.63 $\frac{1}{2}$.47 $\frac{1}{2}$ 1.59 $\frac{1}{2}$	.15 $\frac{2}{5}$.61 $\frac{1}{2}$.46 $\frac{1}{5}$ 1.54	.14 $\frac{7}{10}$.59 $\frac{2}{5}$.44 $\frac{1}{10}$ 1.48 $\frac{1}{2}$	.14 $\frac{3}{10}$.57 $\frac{1}{5}$.42 $\frac{9}{10}$ 1.43	.13 $\frac{3}{4}$.55 .41 $\frac{1}{4}$ 1.37 $\frac{1}{2}$	.13 $\frac{1}{5}$.52 $\frac{1}{2}$.39 $\frac{1}{5}$ 1.32	8 INCH 23 lbs.
.18 $\frac{7}{10}$.75 $\frac{1}{2}$.56 $\frac{1}{2}$ 1.88 $\frac{1}{2}$	.18 $\frac{1}{5}$.72 $\frac{1}{2}$.54 $\frac{1}{5}$ 1.82	.17 $\frac{1}{10}$.70 $\frac{1}{2}$.52 $\frac{3}{10}$ 1.75 $\frac{1}{2}$	.16 $\frac{9}{10}$.67 $\frac{3}{5}$.50 $\frac{7}{10}$ 1.69	.16 $\frac{1}{4}$.65 .48 $\frac{3}{4}$ 1.62 $\frac{1}{2}$	.15 $\frac{3}{5}$.62 $\frac{1}{2}$.46 $\frac{1}{5}$ 1.56	9 INCH 28 lbs.
.23 $\frac{1}{5}$.92 $\frac{1}{2}$.69 $\frac{3}{5}$ 2.32	.22 $\frac{2}{5}$.89 $\frac{1}{2}$.67 $\frac{1}{5}$ 2.24	.21 $\frac{3}{5}$.86 $\frac{1}{2}$.64 $\frac{1}{5}$ 2.16	.20 $\frac{1}{5}$.83 $\frac{1}{2}$.62 $\frac{2}{5}$ 2.08	.20 .80 .60 2.00	.19 $\frac{1}{5}$.76 $\frac{1}{2}$.57 $\frac{3}{5}$ 1.92	10 INCH 35 lbs.
.29 1.16 .87 4.35	.28 1.12 .84 4.20	.27 1.08 .81 4.05	.26 1.04 .78 3.90	.25 1.00 .75 3.75	.24 .96 .72 3.60	12 INCH 45 lbs.
.39 $\frac{3}{10}$ 1.56 $\frac{3}{5}$ 1.17 $\frac{9}{10}$.55 $\frac{1}{10}$	.37 $\frac{1}{5}$ 1.51 $\frac{1}{5}$ 1.13 $\frac{2}{5}$.53 $\frac{1}{5}$	.36 $\frac{9}{10}$ 1.45 $\frac{1}{5}$ 1.09 $\frac{7}{10}$.51 $\frac{1}{10}$	.35 $\frac{1}{10}$ 1.40 $\frac{2}{5}$ 1.05 $\frac{3}{10}$.49 $\frac{2}{5}$	.33 $\frac{3}{4}$ 1.35 1.01 $\frac{1}{4}$.47 $\frac{1}{2}$	.32 $\frac{2}{5}$ 1.29 $\frac{3}{5}$.97 $\frac{1}{5}$.45 $\frac{3}{5}$	15 INCH D. S. 75 lbs.
2.20 $\frac{2}{5}$ 1.65 $\frac{3}{10}$.65 $\frac{1}{4}$	2.12 $\frac{4}{5}$ 1.59 $\frac{3}{5}$.63	2.05 $\frac{1}{5}$ 1.53 $\frac{9}{10}$.60 $\frac{3}{4}$	1.97 $\frac{3}{5}$ 1.48 $\frac{1}{5}$.58 $\frac{1}{2}$	1.90 1.42 $\frac{1}{2}$.56 $\frac{1}{4}$	1.82 $\frac{2}{5}$ 1.36 $\frac{4}{5}$.54	18 INCH D. S. 118 lbs.
2.61 1.95 $\frac{3}{4}$.78 $\frac{3}{10}$	2.52 1.89 .75 $\frac{3}{5}$	2.43 1.82 $\frac{1}{4}$.72 $\frac{9}{10}$	2.34 1.75 $\frac{1}{2}$.70 $\frac{1}{5}$	2.25 1.68 $\frac{3}{4}$.67 $\frac{1}{2}$	2.16 1.62 .64 $\frac{4}{5}$	20 INCH D. S. 138 lbs.
3.13 $\frac{1}{5}$ 2.34 $\frac{9}{10}$.87	3.02 $\frac{2}{5}$ 2.26 $\frac{1}{5}$.84	2.91 $\frac{3}{5}$ 2.18 $\frac{7}{10}$.81	2.80 $\frac{1}{5}$ 2.10 $\frac{1}{5}$.78	2.70 2.02 $\frac{1}{2}$.75	2.59 $\frac{1}{5}$ 1.94 $\frac{3}{5}$.72	21 INCH D. S. 148 lbs.
3.48 2.61 .94 $\frac{1}{4}$	3.36 2.52 .91	3.24 2.43 .87 $\frac{3}{4}$	3.12 2.34 .84 $\frac{1}{2}$	3.00 2.25 .81 $\frac{1}{4}$	2.88 2.16 .78	22 INCH D. S. 157 lbs.
3.77 2.82 $\frac{3}{4}$	3.64 2.73	3.51 2.63 $\frac{1}{4}$	3.38 2.53 $\frac{1}{2}$	3.25 2.43 $\frac{3}{4}$	3.12 2.34	24 INCH D. S. 190 lbs.

All branches and traps with more than one inlet, extra price
For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

SIZE	DESCRIPTION	LIST	77%	78%	79%
3 INCH 7 lbs.	Pipe, per foot. . . . .	.20	.04	.04 $\frac{3}{4}$	.04 $\frac{1}{2}$
	Ys or Ts, 2 feet long. . .	.80	.18	.17	.16
	Curves or Elbows. . . . .	.60	.13 $\frac{1}{4}$	.13 $\frac{1}{5}$	.12 $\frac{3}{4}$
	Traps.	1 60	.36	.35 $\frac{1}{5}$	.33 $\frac{1}{5}$
4 INCH 9 lbs.	Pipe, per foot. . . . .	.25	.05 $\frac{3}{4}$	.05 $\frac{1}{2}$	.05 $\frac{1}{4}$
	Ys or Ts, 2 feet long. . .	1 00	.23	.22	.21
	Curves or Elbows. . . . .	.75	.17 $\frac{1}{4}$	.16 $\frac{1}{2}$	.15 $\frac{3}{4}$
	Traps.	2 00	.46	.44	.42
5 INCH 12 lbs.	Pipe, per foot. . . . .	.30	.06 $\frac{9}{10}$	.06 $\frac{8}{10}$	.06 $\frac{3}{10}$
	Ys or Ts, 2 feet long. . .	1 20	.27 $\frac{2}{5}$	.26	.25 $\frac{1}{5}$
	Curves or Elbows. . . . .	.90	.20 $\frac{7}{10}$	.19 $\frac{1}{5}$	.18 $\frac{9}{10}$
	Traps.	2 40	.55 $\frac{1}{5}$	.52 $\frac{1}{5}$	.50 $\frac{2}{5}$
6 INCH 15 lbs.	Pipe, per foot. . . . .	.40	.09 $\frac{1}{5}$	.08 $\frac{4}{5}$	.08 $\frac{2}{5}$
	Ys or Ts, 2 feet long. . .	1 60	.36 $\frac{4}{5}$	.35 $\frac{1}{5}$	.33 $\frac{4}{5}$
	Curves or Elbows.	1 20	.27 $\frac{4}{5}$	.26	.25
	Traps.	3 20	.73 $\frac{3}{5}$	.70 $\frac{3}{5}$	.67 $\frac{1}{5}$
8 INCH 23 lbs.	Pipe, per foot. . . . .	.55	.12 $\frac{1}{2}$	.12 $\frac{1}{10}$	.11 $\frac{1}{10}$
	Ys or Ts, 2 feet long. . .	2 20	.50 $\frac{2}{5}$	.48 $\frac{2}{5}$	.46 $\frac{1}{5}$
	Curves or Elbows.	1 65	.37 $\frac{1}{2}$	.36 $\frac{8}{10}$	.34 $\frac{1}{2}$
	Traps.	5 50	1 26 $\frac{1}{2}$	1 21	1 15 $\frac{1}{2}$
9 INCH 28 lbs.	Pipe, per foot. . . . .	.65	.14 $\frac{9}{10}$	.14 $\frac{8}{10}$	.13 $\frac{3}{10}$
	Ys or Ts, 2 feet long. . .	2 60	.59 $\frac{4}{5}$	.57 $\frac{3}{5}$	.54 $\frac{3}{5}$
	Curves or Elbows.	1 95	.44 $\frac{7}{10}$	.42 $\frac{9}{10}$	.40 $\frac{1}{2}$
	Traps.	6 50	1 49 $\frac{1}{2}$	1 43	1 36 $\frac{1}{2}$
10 INCH 35 lbs.	Pipe, per foot. . . . .	.80	.18 $\frac{2}{5}$	.17 $\frac{3}{10}$	.16 $\frac{1}{5}$
	Ys or Ts, 2 feet long. . .	3 20	.73 $\frac{3}{5}$	.70 $\frac{2}{5}$	.67 $\frac{1}{5}$
	Curves or Elbows.	2 40	.55 $\frac{1}{5}$	.52 $\frac{4}{5}$	.50 $\frac{2}{5}$
	Traps.	8 00	1 84	1 76	1 68
12 INCH 45 lbs.	Pipe, per foot.	1 00	.23	.22	.21
	Ys or Ts, 2 feet long. . .	4 00	.92	.88	.84
	Curves or Elbows.	3 00	.69	.66	.63
	Traps.	15 00	3 45	3 30	3 15
15 INCH S.S. 60 lbs	Pipe, per foot.	1 35	.31 $\frac{1}{10}$	.29 $\frac{7}{10}$	.28 $\frac{7}{10}$
	Ys or Ts, 2 feet long. . .	5 40	1 24 $\frac{1}{5}$	1 18 $\frac{4}{5}$	1 13 $\frac{2}{5}$
	Inlets smaller than 15 in				
	Curves or Elbows.	4 05	.93 $\frac{3}{10}$	.89 $\frac{1}{10}$	.85 $\frac{2}{10}$
18 INCH S.S. 85 lbs.	Pipe, per foot.	1 90	.43 $\frac{7}{10}$	.41 $\frac{1}{5}$	.39 $\frac{9}{10}$
	Ys or Ts, 2 feet long. . .	7 60	1 74 $\frac{4}{5}$	1 67 $\frac{1}{5}$	1 59 $\frac{3}{5}$
	Inlets smaller than 15 in				
	Curves or Elbows.	5 70	1 31 $\frac{1}{10}$	1 25 $\frac{3}{10}$	1 19 $\frac{7}{10}$
20 INCH S.S. 100 lbs	Pipe, per foot.	2 25	.51 $\frac{3}{4}$	.49 $\frac{1}{2}$	.47 $\frac{1}{4}$
	Ys or Ts, 2 feet long. . .				
	Inlets smaller than 15 in	9 00	2 07	1 98	1 89
	Curves or Elbows.	6 75	1 55 $\frac{1}{4}$	1 48 $\frac{1}{2}$	1 41 $\frac{3}{4}$
21 INCH S.S. 120 lbs	Pipe, per foot.	2 70	.62 $\frac{1}{10}$	.59 $\frac{2}{5}$	.56 $\frac{7}{10}$
	Ys or Ts, 2 feet long. . .				
	Inlets smaller than 15 in	10 80	2 48 $\frac{2}{5}$	2 37 $\frac{3}{5}$	2 26 $\frac{4}{5}$
	Curves or Elbows.	8 10	1 86 $\frac{3}{10}$	1 78 $\frac{1}{5}$	1 70 $\frac{1}{10}$
22 INCH S.S. 130 lbs	Pipe, per foot.	3 00	.69	.66	.63
	Ys or Ts, 2 feet long. . .				
	Inlets smaller than 15 in	12 00	2 76	2 64	2 52
	Curves or Elbows.	9 00	2 07	1 98	1 89
24 INCH S.S. 150 lbs.	Pipe, per foot.	3 25	.74 $\frac{3}{4}$	.71 $\frac{1}{2}$	.68 $\frac{1}{4}$
	Ys or Ts, 2 feet long. . .				
	Inlets smaller than 15 in	13 00	2 99	2 86	2 73
	Curves or Elbows.	9 75	2 24 $\frac{1}{4}$	2 14 $\frac{1}{2}$	2 04 $\frac{3}{4}$

Branches with inlets 15 inches or larger, extra price

For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

80%	81%	82%	83%	84%	85%	SIZE
.04 .16 .12 .32	.03 .15 .11 .30	.03 .14 .10 .28	.03 .13 .10 .27	.03 .12 .09 .25	.03 .12 .09 .24	3 INCH 7 lbs.
.05 .20 .15 .40	.04 $\frac{3}{4}$.19 .14 $\frac{1}{4}$.38	.04 $\frac{1}{2}$.18 .13 $\frac{1}{2}$.36	.04 $\frac{1}{4}$.17 .12 $\frac{3}{4}$.34	.04 .16 .12 .32	.03 $\frac{3}{4}$.15 .11 $\frac{1}{4}$.30	4 INCH 9 lbs.
.06 .24 .18 .48	.05 $\frac{7}{10}$.22 .17 $\frac{1}{10}$.45	.05 $\frac{2}{5}$.21 .16 $\frac{1}{5}$.43	.05 $\frac{1}{10}$.20 .15 $\frac{3}{10}$.40	.04 $\frac{4}{5}$.19 .14 $\frac{2}{5}$.38	.04 $\frac{1}{2}$.18 .13 $\frac{1}{2}$.36	5 INCH 12 lbs.
.08 .32 .24 .64	.07 $\frac{3}{5}$.30 .22 .60	.07 $\frac{1}{5}$.28 .21 .57	.06 $\frac{4}{5}$.27 .20 .54	.06 $\frac{2}{5}$.25 .19 .51	.06 .24 .18 .48	6 INCH 15 lbs.
.11 .44 .33 1.10	.10 $\frac{9}{20}$.41 .31 1.04 $\frac{1}{2}$	.09 $\frac{9}{10}$.39 .29 .99	.09 $\frac{7}{10}$.37 .28 .93 $\frac{1}{2}$	.08 $\frac{4}{5}$.35 .26 .88	.08 $\frac{1}{4}$.33 .24 $\frac{3}{4}$ 82 $\frac{1}{2}$	8 INCH 23 lbs.
.13 .52 .39 1.30	.12 $\frac{7}{10}$.49 .37 1.23 $\frac{1}{2}$	.11 $\frac{7}{10}$.46 .35 1.17	.11 $\frac{1}{10}$.44 .33 1.10 $\frac{1}{2}$	.10 $\frac{2}{5}$.41 .31 1.04	.09 $\frac{3}{4}$.39 .29 $\frac{1}{4}$ 97 $\frac{1}{2}$	9 INCH 28 lbs.
.16 .64 .48 1.60	.15 $\frac{1}{5}$.60 .45 1.52	.14 $\frac{2}{5}$.57 .43 1.44	.13 $\frac{3}{5}$.54 .40 1.36	.12 $\frac{4}{5}$.51 .38 1.28	.12 .48 .36 1.20	10 INCH 35 lbs.
.20 .80 .60 3.00	.19 .76 .57 2.85	.18 .72 .54 2.70	.17 .68 .51 2.55	.16 .64 .48 2.40	.15 .60 .45 2.25	12 INCH 45 lbs.
.27 1.08 .81 .38	.25 $\frac{3}{10}$ 1.02 $\frac{3}{5}$.76 $\frac{9}{20}$.36 $\frac{1}{10}$	.24 $\frac{3}{10}$.97 $\frac{1}{5}$.72 $\frac{9}{10}$.34 $\frac{1}{5}$	.22 $\frac{19}{20}$.91 $\frac{4}{5}$.68 $\frac{17}{20}$.32 $\frac{3}{10}$	.21 $\frac{3}{5}$.86 $\frac{2}{5}$.64 $\frac{4}{5}$.30 $\frac{2}{5}$	.20 $\frac{1}{4}$.81 .60 $\frac{3}{4}$.28 $\frac{1}{2}$	15 INCH D. S. 75 lbs.
1.52 1.14 .45	1.44 $\frac{2}{5}$ 1.08 $\frac{3}{10}$.42 $\frac{3}{4}$	1.36 $\frac{4}{5}$ 1.02 $\frac{3}{5}$.40 $\frac{1}{2}$	1.29 $\frac{1}{10}$.96 $\frac{9}{10}$.38 $\frac{1}{4}$	1.21 $\frac{3}{5}$.91 $\frac{1}{5}$.36	1.14 85 $\frac{1}{2}$.33 $\frac{3}{4}$	18 INCH D. S. 118 lbs.
1.80 1.35 .54	1.71 1.28 $\frac{1}{4}$.51 $\frac{3}{10}$	1.62 1.21 $\frac{1}{2}$.48 $\frac{3}{5}$	1.53 1.14 $\frac{3}{4}$.45 $\frac{9}{10}$	1.44 1.08 .43 $\frac{1}{5}$	1.35 1.01 $\frac{1}{4}$.40 $\frac{1}{2}$	20 INCH D. S. 138 lbs.
2.16 1.62 .60	2.05 $\frac{1}{5}$ 1.53 $\frac{9}{10}$.57	1.94 $\frac{2}{5}$ 1.45 $\frac{4}{5}$.54	1.83 $\frac{3}{5}$ 1.37 $\frac{7}{10}$.51	1.72 $\frac{4}{5}$ 1.29 $\frac{3}{5}$.48	1.62 1.21 $\frac{1}{2}$.45	21 INCH D. S. 148 lbs.
2.40 1.80 .65	2.28 1.71 .61 $\frac{3}{4}$	2.16 1.62 .58 $\frac{1}{2}$	2.04 1.53 .55 $\frac{1}{4}$	1.92 1.44 .52	1.80 1.35 .48 $\frac{3}{4}$	22 INCH D. S. 157 lbs.
2.60 1.95	2.47 1.85 $\frac{1}{4}$	2.34 1.75 $\frac{1}{2}$	2.21 1.65 $\frac{3}{4}$	2.08 1.56	1.95 1.46 $\frac{1}{4}$	24 INCH D. S. 190 lbs.

All branches and traps with more than one inlet, extra price
For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

SIZE	DESCRIPTION	LIST	86%	87%	88%
3 INCH 7 lbs.	Pipe, per foot . . . . .	.20	.02 $\frac{1}{2}$	.02 $\frac{3}{4}$	.02 $\frac{2}{3}$
	Ys or Ts, 2 feet long . . . . .	.80	.11 $\frac{1}{2}$	.10 $\frac{3}{4}$	.09 $\frac{2}{3}$
	Curves or Elbows . . . . .	.60	.08 $\frac{1}{2}$	.07 $\frac{3}{4}$	.07 $\frac{1}{2}$
	Traps	1 60	.22 $\frac{1}{2}$	.20 $\frac{3}{4}$	.19 $\frac{1}{2}$
4 INCH 9 lbs.	Pipe, per foot . . . . .	.25	.03 $\frac{1}{2}$	.03 $\frac{1}{4}$	.03
	Ys or Ts, 2 feet long	1.00	.14	.13	.12
	Curves or Elbows . . . . .	.75	.10 $\frac{1}{2}$	.09 $\frac{3}{4}$	.09
	Traps	2.00	.28	.26	.24
5 INCH 12 lbs.	Pipe, per foot . . . . .	.30	.04 $\frac{1}{2}$	.03 $\frac{9}{10}$	.03 $\frac{3}{5}$
	Ys or Ts, 2 feet long	1 20	.16 $\frac{1}{2}$	.15 $\frac{3}{4}$	.14 $\frac{2}{3}$
	Curves or Elbows . . . . .	.90	.12 $\frac{3}{4}$	.11 $\frac{7}{10}$	.10 $\frac{3}{4}$
	Traps	2 40	.33 $\frac{1}{2}$	.31 $\frac{1}{2}$	.28 $\frac{1}{2}$
6 INCH 15 lbs.	Pipe, per foot . . . . .	.40	.05 $\frac{1}{2}$	.05 $\frac{1}{5}$	.04 $\frac{1}{2}$
	Ys or Ts, 2 feet long	1 60	.22 $\frac{1}{2}$	.20 $\frac{3}{4}$	.19 $\frac{1}{2}$
	Curves or Elbows	1 20	.16 $\frac{1}{2}$	.15 $\frac{3}{4}$	.14 $\frac{2}{3}$
	Traps	3 20	.44 $\frac{1}{2}$	.41 $\frac{1}{2}$	.38 $\frac{1}{2}$
8 INCH 23 lbs.	Pipe, per foot . . . . .	.55	.07 $\frac{7}{10}$	.07 $\frac{3}{5}$	.06 $\frac{3}{4}$
	Ys or Ts, 2 feet long	2 20	.30 $\frac{1}{2}$	.28 $\frac{3}{4}$	.26 $\frac{1}{2}$
	Curves or Elbows	1 65	.23 $\frac{1}{10}$	.21 $\frac{9}{10}$	.19 $\frac{4}{5}$
	Traps	5 50	.77 $\frac{1}{2}$	.71 $\frac{1}{2}$	.66 $\frac{1}{2}$
9 INCH 28 lbs.	Pipe, per foot . . . . .	.65	.09 $\frac{1}{10}$	.08 $\frac{9}{10}$	.07 $\frac{4}{5}$
	Ys or Ts, 2 feet long	2 60	.36 $\frac{1}{2}$	.33 $\frac{1}{2}$	.31 $\frac{1}{2}$
	Curves or Elbows	1 95	.27 $\frac{3}{10}$	.25 $\frac{7}{10}$	.23 $\frac{1}{2}$
	Traps	6 50	.91 $\frac{1}{2}$	.84 $\frac{1}{2}$	.78 $\frac{1}{2}$
10 INCH 35 lbs.	Pipe, per foot . . . . .	.80	.11 $\frac{1}{2}$	.10 $\frac{3}{4}$	.09 $\frac{3}{4}$
	Ys or Ts, 2 feet long	3 20	.44 $\frac{1}{2}$	.41 $\frac{3}{4}$	.38 $\frac{1}{2}$
	Curves or Elbows	2 40	.33 $\frac{1}{2}$	.31 $\frac{1}{2}$	.28 $\frac{1}{2}$
	Traps	8 00	1 12 $\frac{1}{2}$	1 04 $\frac{1}{2}$	.96 $\frac{1}{2}$
12 INCH 45 lbs.	Pipe, per foot	1.00	.14	.13	.12
	Ys or Ts, 2 feet long	4 00	.56	.52	.48
	Curves or Elbows	3 00	.42	.39	.36
	Traps	15 00	2 10	1 95	1 80
15 INCH S.S. 60 lbs	Pipe, per foot	1.35	.18 $\frac{9}{10}$	.17 $\frac{1}{2}$	.16 $\frac{1}{5}$
	Ys or Ts, 2 feet long	5.40	.75 $\frac{3}{5}$	.70 $\frac{1}{5}$	.64 $\frac{1}{5}$
	Inlets smaller than 15 in.	4 05	.56 $\frac{7}{10}$	.52 $\frac{3}{10}$	.48 $\frac{1}{5}$
	Curves or Elbows				
18 INCH S.S. 85 lbs.	Pipe, per foot	1.90	.26 $\frac{3}{5}$	.24 $\frac{7}{10}$	.22 $\frac{1}{5}$
	Ys or Ts, 2 feet long	7 60	1 06 $\frac{2}{5}$	.98 $\frac{1}{5}$	.91 $\frac{1}{5}$
	Inlets smaller than 15 in.	5 70	.79 $\frac{1}{5}$	.74 $\frac{1}{10}$	.68 $\frac{1}{10}$
	Curves or Elbows				
20 INCH S.S. 100 lbs.	Pipe, per foot	2.25	.31 $\frac{1}{2}$	.29 $\frac{1}{4}$	.27
	Ys or Ts, 2 feet long	9.00	1 26	1 17	1 08
	Inlets smaller than 15 in.	6.75	.94 $\frac{1}{2}$	.87 $\frac{3}{4}$	.81
	Curves or Elbows				
21 INCH S.S. 120 lbs.	Pipe, per foot	2.70	.37 $\frac{1}{5}$	.35 $\frac{1}{10}$	.32 $\frac{2}{5}$
	Ys or Ts, 2 feet long	10.80	1 51 $\frac{1}{5}$	1 40 $\frac{2}{5}$	1 29 $\frac{3}{5}$
	Inlets smaller than 15 in.	8.10	1 13 $\frac{2}{5}$	1 05 $\frac{3}{10}$	.97 $\frac{1}{5}$
	Curves or Elbows				
22 INCH S.S. 130 lbs.	Pipe, per foot	3.00	.42	.39	.36
	Ys or Ts, 2 feet long	12.00	1 68	1 56	1 44
	Inlets smaller than 15 in.	9.00	1 26	1 17	1 08
	Curves or Elbows				
24 INCH S.S. 150 lbs.	Pipe, per foot	3.25	.45 $\frac{1}{2}$	.42 $\frac{1}{4}$	.39
	Ys or Ts, 2 feet long	13.00	1 82	1 69	1 56
	Inlets smaller than 15 in.	9.75	1 36 $\frac{1}{2}$	1 26 $\frac{3}{4}$	1 17
	Curves or Elbows				

Branches with inlets 15 inches or larger, extra price
For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

89%	90%	SIZE
.02 $\frac{1}{3}$.08 $\frac{1}{3}$.06 $\frac{3}{5}$.17 $\frac{8}{15}$	.02 .08 .06 .16	3 INCH 7 lbs.
.02 $\frac{3}{4}$.11 .08 $\frac{1}{4}$.22	.02 $\frac{1}{2}$.10 .07 $\frac{1}{2}$.20	4 INCH 9 lbs.
.03 $\frac{8}{10}$.13 $\frac{1}{5}$.09 $\frac{9}{10}$.26 $\frac{5}{10}$	.03 .12 .09 .24	5 INCH 12 lbs.
.04 $\frac{8}{10}$.17 $\frac{3}{5}$.13 $\frac{1}{5}$.35 $\frac{1}{5}$	.04 .16 .12 .32	6 INCH 15 lbs.
.06 $\frac{1}{2}$.24 $\frac{1}{5}$.18 $\frac{3}{5}$.60 $\frac{1}{2}$	.05 $\frac{1}{2}$.22 .16 $\frac{1}{2}$.55	8 INCH 23 lbs.
.07 $\frac{8}{10}$.28 $\frac{3}{5}$.21 $\frac{9}{10}$.71 $\frac{1}{2}$	.06 $\frac{1}{2}$.26 .19 $\frac{1}{2}$.65	9 INCH 28 lbs.
.08 $\frac{4}{5}$.35 $\frac{1}{5}$.26 $\frac{2}{5}$.88	.08 .32 .24 .80	10 INCH 35 lbs.
.11 .44 .33 1 65	.10 .40 .30 1 50	12 INCH 45 lbs.
.14 $\frac{1}{2}$.59 $\frac{2}{5}$.44 $\frac{1}{2}$.20 $\frac{9}{10}$	.13 $\frac{1}{2}$.54 .40 $\frac{1}{2}$ 19	15 INCH D. S. 75 lbs.
.83 $\frac{3}{5}$.62 $\frac{7}{10}$.24 $\frac{3}{4}$	.76 .57 .22 $\frac{1}{2}$	18 INCH D. S. 118 lbs.
.99 .74 $\frac{1}{4}$.29 $\frac{7}{10}$	.90 .67 $\frac{1}{2}$.27	20 INCH D. S. 138 lbs.
1 18 $\frac{4}{5}$.89 $\frac{1}{10}$.33	1 08 .81 .30	21 INCH D. S. 148 lbs.
1 32 .99 .35 $\frac{3}{4}$	1 20 90 .32 $\frac{1}{2}$	22 INCH D. S. 157 lbs.
1 43 1 07 $\frac{1}{4}$	1 30 .97 $\frac{1}{2}$	24 INCH D. S. 190 lbs.

FOR
SIZES
27 TO 36
INCHES
INCLUSIVE
SEE
PAGES
20, 21 AND 22

All branches and traps with more than one inlet, extra price
For larger sizes, see pages 20, 21, 22

Net Prices at the Various Discounts

SIZE	DESCRIPTION	LIST	40%	41%	42%
27 INCH S.S.224lbs.	Pipe, per foot.	4 50	2.70	2.65½	2 61
	Ys or Ts, 2½ or 3 ft. long	22.50	13 50	13 27½	13.05
	Inlets smaller than 15 in.	13.50	8 10	7 96½	7.83
	Curves or Elbows				
30 INCH S.S.252lbs.	Pipe, per foot.	5.50	3.30	3 24½	3.19
	Ys or Ts, 2½ or 3 ft. long	27 50	16.50	16 22½	15 95
	Inlets smaller than 15 in.	16.50	9 90	9 73½	9 57
	Curves or Elbows				
33 INCH S.S.310lbs.	Pipe, per foot.	6.25	3.75	3.68¾	3.62½
	Ys or Ts, 2½ or 3 ft. long	31.25	18.75	18 43¾	18.12½
	Inlets smaller than 15 in.	18.75	11.25	11 06¾	10 87½
	Curves or Elbows				
36 INCH S.S.350lbs.	Pipe, per foot.	7 00	4.20	4.13	4.06
	Ys or Ts, 2½ or 3 ft. long	35 00	21.00	20.65	20 30
	Inlets smaller than 15 in.	21.00	12.60	12.39	12 18
	Curves or Elbows				

SIZE	DESCRIPTION	LIST	49%	50%	51%
27 INCH S.S.224lbs.	Pipe, per foot.	4.50	2 29½	2 25	2 20½
	Ys or Ts, 2½ or 3 ft. long	22.50	11 47½	11 25	11 02½
	Inlets smaller than 15 in.	13.50	6 88½	6 75	6 61½
	Curves or Elbows				
30 INCH S.S.252lbs.	Pipe, per foot.	5 50	2 80½	2.75	2.69½
	Ys or Ts, 2½ or 3 ft. long	27 50	14.02½	13 75	13 47½
	Inlets smaller than 15 in.	16.50	8 41½	8 25	8 08½
	Curves or Elbows				
33 INCH S.S.310lbs.	Pipe, per foot.	6.25	3.18¾	3.12½	3.06¼
	Ys or Ts, 2½ or 3 ft. long	31.25	15 93¾	15 62½	15.31¼
	Inlets smaller than 15 in.	18 75	9 56¼	9 37½	9 18¾
	Curves or Elbows				
36 INCH S.S.350lbs.	Pipe, per foot.	7 00	3 57	3.50	3.43
	Ys or Ts, 2½ or 3 ft. long	35 00	17.85	17.50	17 15
	Inlets smaller than 15 in.	21 00	10.71	10.50	10.29
	Curves or Elbows				

SIZE	DESCRIPTION	LIST	58%	59%	60%
27 INCH S.S.224lbs.	Pipe, per foot.	4.50	1.89	1.84½	1 80
	Ys or Ts, 2½ or 3 ft. long	22.50	9 45	9 22½	9 00
	Inlets smaller than 15 in.	13.50	5 67	5 53½	5 40
	Curves or Elbows				
30 INCH S.S.252lbs.	Pipe, per foot.	5 50	2.31	2.25½	2.20
	Ys or Ts, 2½ or 3 ft. long	27 50	11 55	11.27½	11 00
	Inlets smaller than 15 in.	16 50	6 93	6 76½	6 60
	Curves or Elbows				
33 INCH S.S.310lbs.	Pipe, per foot.	6.25	2.62½	2.56¼	2.50
	Ys or Ts, 2½ or 3 ft. long	31 25	13.12½	12.81¼	12 50
	Inlets smaller than 15 in.	18 75	7 87½	7 68¾	7.50
	Curves or Elbows				
36 INCH S.S.350lbs.	Pipe, per foot.	7.00	2.94	2.87	2.80
	Ys or Ts, 2½ or 3 ft. long	35 00	14 70	14 35	14 00
	Inlets smaller than 15 in.	21.00	8 82	8 61	8 40
	Curves or Elbows				

Branches with inlets 15 inches or larger, extra price
(See note page 22)

Net Prices at the Various Discounts

43%	44%	45%	46%	47%	48%	SIZE
2.56½	2.52	2.47½	2.43	2.38½	2.34	27 INCH D. S. 265 lbs.
12.82½	12.60	12.37½	12.15	11.92½	11.70	
7.69½	7.56	7.42½	7.29	7.15½	7.02	
3.13½	3.08	3.02½	2.97	2.91½	2.86	30 INCH D. S. 290 lbs.
15.67½	15.40	15.12½	14.85	14.57½	14.30	
9.40½	9.24	9.07½	8.91	8.74½	8.58	
3.56¼	3.50	3.43¾	3.37½	3.31¼	3.25	33 INCH D. S. 335 lbs.
17.81¼	17.50	17.18¾	16.87½	16.56¼	16.25	
10.68¾	10.50	10.31¼	10.12½	9.93¾	9.75	
3.99	3.92	3.85	3.78	3.71	3.64	36 INCH D. S. 375 lbs.
19.95	19.60	19.25	18.90	18.55	18.20	
11.97	11.76	11.55	11.34	11.13	10.92	

52%	53%	54%	55%	56%	57%	SIZE
2.16	2.11½	2.07	2.02½	1.98	1.93½	27 INCH D. S. 265 lbs.
10.80	10.57½	10.35	10.12½	9.90	9.67½	
6.48	6.34½	6.21	6.07½	5.94	5.80½	
2.64	2.58½	2.53	2.47½	2.42	2.36½	30 INCH D. S. 290 lbs.
13.20	12.92½	12.65	12.37½	12.10	11.82½	
7.92	7.75½	7.59	7.42½	7.26	7.09½	
3.00	2.93¾	2.87½	2.81¼	2.75	2.68¾	33 INCH D. S. 335 lbs.
15.00	14.68¾	14.37½	14.06¼	13.75	13.43¾	
9.00	8.81¼	8.62½	8.43¾	8.25	8.06¼	
3.36	3.29	3.22	3.15	3.08	3.01	36 INCH D. S. 375 lbs.
16.80	16.45	16.10	15.75	15.40	15.05	
10.08	9.87	9.66	9.45	9.24	9.03	

61%	62%	63%	64%	65%	66%	SIZE
1.75½	1.71	1.66½	1.62	1.57½	1.53	27 INCH D. S. 265 lbs.
8.77½	8.55	8.32½	8.10	7.87½	7.65	
5.26½	5.13	4.99½	4.86	4.72½	4.59	
2.14½	2.09	2.03½	1.98	1.92½	1.87	30 INCH D. S. 290 lbs.
10.72½	10.45	10.17½	9.90	9.62½	9.35	
6.43½	6.27	6.10½	5.94	5.77½	5.61	
2.43¾	2.37½	2.31¼	2.25	2.18¾	2.12½	33 INCH D. S. 335 lbs.
12.18¾	11.87½	11.56¼	11.25	10.93¾	10.62½	
7.31¼	7.12½	6.93¾	6.75	6.56¼	6.37½	
2.73	2.66	2.59	2.52	2.45	2.38	36 INCH D. S. 375 lbs.
13.65	13.30	12.95	12.60	12.25	11.90	
8.19	7.98	7.77	7.56	7.35	7.14	

All branches and traps with more than one inlet, extra price.
(See note page 22)

Net Prices at the Various Discounts

SIZE	DESCRIPTION	LIST	67%	68%	69%	70%	71%	72%	73%	74%	75%	SIZE
27 INCH S. S. 224 lbs.	Pipe, per foot	4.50	1.48½	1.44	1.39½	1.35	1.30½	1.26	1.21½	1.17	1.12½	27 INCH D. S. 265 lbs.
	Ys or Ts, 2½ or 3 feet long											
	Inlets smaller than 15 in.	22.50	7.42½	7.20	6.97½	6.75	6.52½	6.30	6.07½	5.85	5.62½	
	Curves or Elbows	13.50	4.45½	4.32	4.18½	4.05	3.91½	3.78	3.64½	3.51	3.37½	
30 INCH S. S. 252 lbs.	Pipe, per foot	5.50	1.81½	1.76	1.70½	1.65	1.59½	1.54	1.48½	1.43	1.37½	30 INCH D. S. 290 lbs.
	Ys or Ts, 2½ or 3 feet long											
	Inlets smaller than 15 in.	27.50	9.07½	8.80	8.52½	8.25	7.97½	7.70	7.42½	7.15	6.87½	
	Curves or Elbows	16.50	5.44½	5.28	5.11½	4.95	4.78½	4.62	4.45½	4.29	4.12½	
33 INCH S. S. 310 lbs.	Pipe, per foot	6.25	2.06¼	2.00	1.93¾	1.87½	1.81¼	1.75	1.68¾	1.62½	1.56¼	33 INCH D. S. 335 lbs.
	Ys or Ts, 2½ or 3 feet long											
	Inlets smaller than 15 in.	31.25	10.31¼	10.00	9.68¾	9.37½	9.06¼	8.75	8.43¾	8.12½	7.81¼	
	Curves or Elbows	18.75	6.18¾	6.00	5.81¼	5.62½	5.43¾	5.25	5.06¼	4.87½	4.68¾	
36 INCH S. S. 350 lbs.	Pipe, per foot	7.00	2.31	2.24	2.17	2.10	2.03	1.96	1.89	1.82	1.75	36 INCH D. S. 375 lbs.
	Ys or Ts, 2½ or 3 feet long											
	Inlets smaller than 15 in.	35.00	11.55	11.20	10.85	10.50	10.15	9.80	9.45	9.10	8.75	
	Curves or Elbows	21.00	6.93	6.72	6.51	6.30	6.09	5.88	5.67	5.46	5.25	

Branches with inlets 15 inches or larger, extra price.

All branches and traps with more than one inlet, extra price.

The standard length on all branches 27 inches or larger is 2½ feet, except where the inlet is too large, when they are made in lengths to meet the requirements.

Price List of Fire Clay Stovepipe and Fittings

Calibre Inside Inches	Plain Per Foot	Bonnets 2 Feet Long Each	Bottoms 2 Feet Long Each	Openings Single 2 Feet Long Each	Openings Double 2 Feet Long Each	Openings Single Closed Ends 2 Feet Long Each	Drop Bottoms 3 Feet Long Each	Elbows Each	Mandary Tops Each	Wind- guard Bonnets Without Hoods Each	Bird Cages	Chimney Bases
5	\$0.35	\$1.40	\$ 1.05	\$ 1.05	\$ 1.40	\$1.40	\$2.10	\$ 1.40	\$2.50	\$1.40	\$ 2.50	\$2.00
6	.40	1.60	1.20	1.20	1.60	1.60	2.40	1.60	3.00	1.60	3.00	2.50
7	.50	2.00	1.50	1.50	2.00	2.00	3.00	2.00	3.60	2.00	3.60	3.00
8	.60	2.40	1.80	1.80	2.40	2.40	3.60	2.40		2.40		
9	.70	2.80	2.10	2.10	2.80	2.80	4.20	2.80				
10	.85	3.40	2.55	2.55	3.40	3.40	5.10	3.40				
12	1.10	4.40	3.30	3.30	4.40	4.40	6.60	4.40				
15	1.50	.....	4.50	4.50	6.00	.....	.....	6.00				
18	1.80	.....	5.40	5.40	7.20	.....	.....	7.20				
20	2.50	.....	7.50	7.50	10.00	.....	.....	10.00				
21	2.75	.....	8.25	8.25	11.00	.....	.....			
22	3.00	.....	9.00	9.00	12.00	.....	.....			
24	3.50	.....	10.50	10.50	14.00	.....	.....			
27	4.25	.....	.....	12.75	17.00	.....	.....			
30	5.50	.....	.....	16.50	22.00	.....	.....			
33	6.25	.....	.....	18.75	25.00	.....	.....			
36	7.00	.....	.....	21.00	28.00	.....	.....			

Additional lengths charged in proportion. Bottoms, closed ends or flanges added, each to be charged one foot of pipe of the same size, bases 18 inches high or under, to be the price of 5 feet of pipe of size of bowl; over 18 inches in height the additional length to be charged. Fifty per cent additional to be charged for hooded windguard bonnets. Discounts governing prices on 5 to 24 inches inclusive will not apply to 27 to 36 inches inclusive. Inlets 18 inches or larger made only in 3-foot lengths.

Chimney

Fire Clay Stovepipe Fittings



Mandary Top
Female



O. G. Bonnet



Mandary Top
Male



Bird Cage Wind-
guard, Male



Anchor Bonnet



Bird Cage, Wind-
guard, Female



Bottoms



Chimney Base



Plain Stovepipe



Single Opening



Drop Bottom



Double Opening

Fire Clay Stove Thimbles

PRICE EACH

Calibre	Length in Inches				
	4½	6	8	10	12
4	\$0.17	\$0.22	.....	.....	.....
5	.20	.25	\$0.35	\$0.40	\$0.45
6	.25	.35	.40	.45	.50
7	.30	.40	.45	.50	.60
8	.35	.45	.55	.60	.70
9	.40	.50	.60	.70	.80
10	.45	.55	.65	.75	.85
12	.55	.65	.75	.85	1.00

Made ¼ inch larger than measure to receive stovepipe.

Round Flues

WITHOUT SOCKETS

Inside Measure	Weight per Foot	Price per Foot
6 inches.....	15 pounds.....	\$0.30
7 inches.....	17½ pounds.....	.38
8 inches.....	20 pounds.....	.45
9 inches.....	25 pounds.....	.55
10 inches.....	27½ pounds.....	.65
12 inches.....	32½ pounds.....	.85
15 inches.....	55 pounds.....	1.25
18 inches.....	70 pounds.....	1.70
20 inches.....	87½ pounds.....	2.25
21 inches.....		2.50
22 inches.....		2.75
24 inches.....	125 pounds.....	3.25
27 inches.....		4.25
30 inches.....		5.50
33 inches.....		6.25
36 inches.....		7.00

Openings four times price of one foot straight pipe.

Fire Clay Flue Linings



Opening, Round Corners



Register Opening
Round Corners

Flue Weights

IN 2-FOOT LENGTHS, OUTSIDE MEASURE

4½ x 8½	inches.....	14 pounds per foot.....	\$0.30 per foot
4½ x 13	inches.....	20 pounds per foot.....	.45 per foot
4½ x 18	inches.....	40 pounds per foot.....	1.00 per foot
6 x 12	inches.....	22 pounds per foot.....	.50 per foot
7 x 7	inches.....	15 pounds per foot.....	.35 per foot
8½ x 8½	inches.....	18 pounds per foot.....	.45 per foot
8½ x 13	inches.....	28 pounds per foot.....	.65 per foot
8½ x 18	inches.....	45 pounds per foot.....	.90 per foot
12 x 16	inches.....	45 pounds per foot.....	1.00 per foot
13 x 13	inches.....	38 pounds per foot.....	.85 per foot
13 x 18	inches.....	57 pounds per foot.....	1.20 per foot
14 x 16	inches.....	60 pounds per foot.....	1.10 per foot
16 x 16	inches.....	65 pounds per foot.....	1.60 per foot
16 x 20	inches.....	80 pounds per foot.....	2.00 per foot
18 x 18	inches.....	75 pounds per foot.....	2.00 per foot

Openings and registers, 50 per cent added.



Plain, Round Corners



Round Flue
Lining

PRICE LIST
Chimney Tops

Number	Height Feet	N. B. Weights	Shaft	Base		Price
				Kind	Size, Inches	
1	2	53	Round	Round	13	\$2.25
2	2½	58	Round	Round	13	2.75
3	3	73½	Round	Round	13	3.50
4	2	49	Round	Square	13 x 13	2.25
5	2½	63½	Round	Square	13 x 13	2.75
6	3	77¼	Round	Square	13 x 13	3.50
7	2	52½	Octagon	Square	13 x 13	2.25
8	2½	68	Octagon	Square	13 x 13	2.75
9	3	70½	Octagon	Square	13 x 13	3.25
10	2	57	Octagon	Octagon	13	2.00
11	2½	61½	Octagon	Octagon	13	2.50
12	3	88	Octagon	Octagon	13	3.25
13	2	51	Paneled	Square	13 x 13	2.25
14	2½	56½	Paneled	Square	13 x 13	2.75
15	3	73½	Paneled	Square	13 x 13	3.50
16	2½	63½	Octagon	Square	13 x 13	3.25
17	3	83½	Octagon	Square	13 x 13	4.00
19	2½	96½	Rectangle	Rectangle	12 x 16	2.75
20	3	116¼	Rectangle	Rectangle	12 x 16	3.25
21	2	60	Pyramid	Square	13 x 13	2.00
22	2	42	Round	Round	10	2.00
22½	2½	83	Round	Square	13 x 13	3.75
23	3	93	Round	Square	13 x 13	4.25
24	3½	102	Round	Square	13 x 13	5.00
25	3	100	Round	Square	13 x 13	5.75
26	3½	114	Round	Square	13 x 13	6.50
29	3	89	Octagon	Square	13 x 13	5.75
30	3½	93	Octagon	Square	13 x 13	6.50

Chimney

Tops



Nos. 7, 8 and 9



Nos. 29 and 30



Nos. 13, 14 and 15



Nos. 25 and 26



Nos. 19 and 20



Nos. 22½, 23 and 24



Nos. 1, 2 and 3



Nos. 16 and 17



Nos. 10, 11 and 12



Nos. 4, 5 and 6



No. 22



No. 21

Impermeable Vitrified Wall Coping

PRICE LIST

Width	Price per Foot	Corners Each	Angles Each	Closed Ends, Each	Weight per Foot, Pounds
For { 8'' or 9'' } wall	\$0.40	\$1.20	\$1.20	\$1.20	10
For { 12'' or 13'' } wall	.60	1.80	1.80	1.80	15
For 18'' wall	1.20	3.60	3.60	3.60	30

The regular length is two feet. We make and carry in stock various lengths, viz.: 4, 6, 8, 12, 16, and 18 inches, and 8, 9, 12, 13, and 18 inches in width, with starters, corners, angles, etc., that enable us to cover any length of wall.

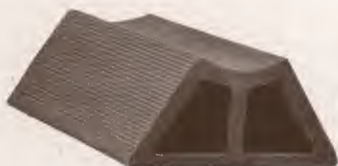
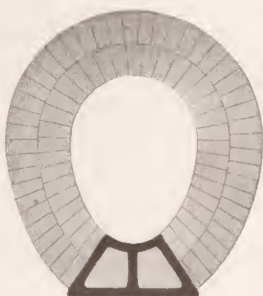
If you do not carry in stock all sizes, please state the lengths wanted, or send us an exact drawing of wall to be covered, and we will send proper size.

This coping being salt-glazed and vitrified, makes a superior and more lasting covering for exposed walls than any other material now in use.



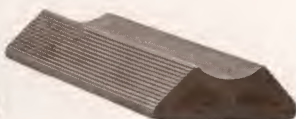
Wall Coping

Invert Blocks, Gutter Tile, Drip Stones



Double Ring

Weight, 45 pounds per foot



Single Ring

Weight, 25 pounds per foot

For bottom of brick sewers

Write for prices and specifications



Hexagon Gutter Tile

Size, $3\frac{1}{4} \times 11 \times 12$

Weight, 23 pounds



Gutter Tile

Size, $5 \times 8 \times 12$

Weight, 20 pounds



Drip Stone

Size, $5 \times 12 \times 12$. Weight, 45 pounds

Impermeable Vitrified Building Blocks



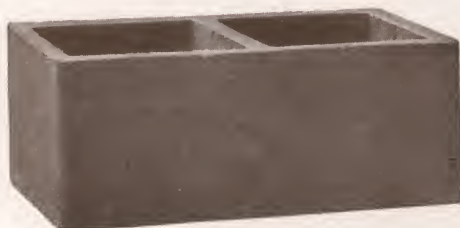
Plain Block
8 x 8 x 16



Ribbed Block
8 x 8 x 16



8 x 10 x 16



Corner Block, 8 x 10 x 20

Size, 8 x 8 x 16.....	Weight, 34 pounds
Size, 8 x 10 x 16.....	Weight, 50 pounds

Corner blocks same price as plain blocks.

Bow window blocks three times price plain blocks.

Vitrified Round Drain Tile

GLAZED AND UNGLAZED

Size Inches	List Price		Weight per Foot Pounds	Length per Piece Feet
	Per 1,000 Feet	Ys, Ts, Ells and Curves Each		
2	\$ 12.00	\$ 0.10	3½	1
2½	15 00	.10	4	1
3	20.00	.20	5	1
4	30 00	.20	7½	1
5	40.00	.30	10	1
6	55.00	.40	13	1
8	90.00	.60	20	2
10	135.00	1.00	30	2
12	180.00	1.50	40	2

Rings for drain tile, 50 per cent of 1 foot of tile.



Drain Tile.

Number Feet Drain Tile in Car Load

(30,000 LBS.)

2½-inch.....	4	lbs.....	7,500 feet
3 -inch.....	5	lbs.....	6,000 feet
4 -inch.....	7½	lbs.....	4,000 feet
5 -inch.....	10	lbs.....	3,000 feet
6 -inch.....	13	lbs.....	2,310 feet
8 -inch.....	20	lbs.....	1,500 feet
10 -inch.....	30	lbs.....	1,000 feet
12 -inch.....	40	lbs.....	750 feet

Number Feet Standard Pipe in Car Load

(24,000 LBS.)

3-inch	3,500 feet
4-inch	2,700 feet
5-inch	2,000 feet
6-inch	1,600 feet
8-inch	1,050 feet
9-inch	900 feet
10-inch	700 feet
12-inch	535 feet
15-inch	400 feet
18-inch	290 feet
20-inch	240 feet
21-inch	200 feet
22-inch	190 feet
24-inch	160 feet
27-inch	110 feet
30-inch	100 feet
33-inch	80 feet
36-inch	70 feet

Number Feet Double-Strength Pipe in Car Load

(24,000 LBS.)

15-inch	320 feet
18-inch	205 feet
20-inch	175 feet
21-inch	165 feet
22-inch	155 feet
24-inch	130 feet
27-inch	95 feet
30-inch	85 feet
33-inch	75 feet
36-inch	65 feet

Porter Vitrified Paving Brick and Block

Oldest and Best for Streets, Roadways and Sidewalks

STANDARD

$8\frac{1}{2} \times 2\frac{1}{2} \times 4\frac{1}{8}$. Weight, 7 pounds

ROUND-EDGE REPRESS

$8\frac{1}{2} \times 2\frac{5}{8} \times 4$. Weight, 7 pounds

REPRESS BLOCK

$9\frac{1}{4} \times 3\frac{1}{4} \times 4$. Weight, 9 pounds



Repressed Porter Paving Blocks



Repressed Paving Brick

Fire Brick Shapes

9 x 4½ x 2½. Weight, 7½ pounds

8½ x 4¼ x 2½. Weight, 6½ pounds



End Wedge



Split



Soap



Key



Square



Arch



Bottom Brick

Standard Wire-cut Fire Brick

Hand-made Fire Brick

Fire Clay

Boiler Tile

Grate Tile

Furnace Linings

General Directions for Laying Vitrified Sewer and Culvert Pipe

The smaller sizes may be laid as follows:

Commence at the lower end or outlet of the proposed sewer and grade trench with a uniform inclination throughout its entire length.

After bringing bottom of trench to true uniform grade, excavate a suitable depression for each hub so that the body of the pipe when laid will have a full, firm bearing on the ground.

Commence laying the pipe at the outlet with all hubs facing up grade.

It is most important that pipe be laid on a solid bearing through its length and that the sides be carefully rammed to distribute pressure evenly over entire surface of pipe.

In laying sizes from 8 inches up, it is safer to dig a narrow trench, say 6 to 8 inches wide and 3 to 6 inches deep, according to size, in middle of trench, with depression for sockets, as advised above. The pipes being laid in this manner will be sure of firm bearing along the sides, and if the loose earth is well tamped and rammed from this bearing up to a point above center line of pipes, they will stand a very great amount of pressure.

Where larger sizes are being used and the trenches are deep, or in railroad embankments where the filling is put on after the pipe is laid, would advise using double strength pipe, and in selecting the size of pipe to be used liberal allowance should be made for abnormal rainfall and other extraordinary conditions.

Vitrified salt-glazed pipe is everlasting in itself, and the best of material and workmanship should be used in connection with it. At the outlet or spill of culverts an apron should be formed of stone or concrete and carried out to a sufficient distance from the face of the bank so that there will be no danger of the earth being washed away.

When the soil is of such a character that the pipe cannot be properly supported by tamping, or other extraordinary conditions render great precautions advisable, a concrete bed or foundation extending up the sides of the pipe to its horizontal center and about six inches thick will add greatly to the stability and durability of the work.

When capacity greater than afforded by one pipe is desired, two or more lines of pipe may be laid side by side, but care must be taken that the separate lines are laid far enough apart to secure a solid bed for each line, and to leave sufficient room to admit of the filling being thoroughly tamped along both sides of each pipe.

For waste or drain pipes where perfectly tight joints are not required, the pipe can be used without filling in sockets, but where tight joints are necessary, use cement mortar made of one-half each cement and good sharp sand. Where mortar is used, be sure to carefully wipe inside of pipe so as to leave a smooth surface, free from projections or lumps at the joints.

LENGTH OF PIPE SEWER ONE BARREL OF CEMENT WILL LAY

Size of Pipe, Inches . .	6	8	10	12	15	18	20	24
Length in Feet	1,200	675	450	300	190	130	100	70

Table Showing Cubic Yards of Excavation Required Per Lineal Foot in Trenches of the Following Dimensions

DEPTH IN FEET

Width	4	6	8	10	12	14
2 feet.....	0.30	0.44	0.59	0.74	0.89	1.04
2½ feet.....	0.37	0.53	0.74	0.93	1.11	1.30
3 feet.....	0.44	0.66	0.89	1.11	1.33	1.56
3½ feet.....	0.52	0.78	1.04	1.30	1.56	1.82
4 feet.....	0.59	0.89	1.18	1.48	1.78	2.07
4½ feet.....	0.66	1.00	1.33	1.67	2.00	2.33
5 feet.....	0.74	1.11	1.48	1.85	2.22	2.59
5½ feet.....	0.82	1.22	1.63	2.03	2.44	2.85
6 feet.....	0.89	1.33	1.78	2.22	2.66	3.11
6½ feet.....	0.96	1.44	1.93	2.40	2.89	3.37
7 feet.....	1.04	1.55	2.07	2.59	3.11	3.63
7½ feet.....	1.10	1.66	2.22	2.77	3.33	3.89
8 feet.....	1.18	1.78	2.37	2.96	3.55	4.15
Width	16	18	20	22	24	26
2 feet.....	1.18	1.33	1.48	1.63	1.78	1.93
2½ feet.....	1.48	1.67	1.85	2.04	2.22	2.41
3 feet.....	1.78	2.00	2.22	2.44	2.66	2.89
3½ feet.....	2.07	2.33	2.59	2.85	3.11	3.37
4 feet.....	2.37	2.67	2.96	3.26	3.55	3.85
4½ feet.....	2.67	3.00	3.33	3.67	4.00	4.33
5 feet.....	2.96	3.33	3.70	4.07	4.44	4.81
5½ feet.....	3.26	3.67	4.07	4.48	4.89	5.30
6 feet.....	3.55	4.00	4.44	4.89	5.33	5.78
6½ feet.....	3.85	4.33	4.81	5.30	5.78	6.26
7 feet.....	4.15	4.67	5.19	5.70	6.22	6.74
7½ feet.....	4.44	5.00	5.55	6.11	6.67	7.22
8 feet.....	4.74	5.33	5.92	6.52	7.12	7.70

Ring Pipe

We carry in stock at our Akron factories all sizes of the celebrated Standard Akron Ring Sewer Pipe, with rings, which is the best ring pipe ever put on the market, and despite all efforts of the manufacturers of other kinds of pipe to make just as good as the Standard Akron, they have been unable to produce ring pipe that is acceptable to Engineers. Our factories have always kept in the lead by maintaining the highest standard.

List price on ring pipe and branches same as standard pipe and branches.

Directions for Using Portland Cement

THE CEMENT AND SAND SHOULD BE THOROUGHLY MIXED DRY, THEN ADD THE WATER

Care at all times should be taken in mixing concrete to use only clean, sharp sand (free from loam or soil), with pebbly grit, old broken bricks, stones or slag; Portland cement, either in casks or bags, must always be kept perfectly dry till used, damp being very injurious, causing it to become lumpy. Brickwork and bricks or stones should always be well wet or soaked in water before using.

When cement plaster is used for facing brickwork, the joints should be deeply cut out and well sluiced with water, after which it may be plastered, taking care always to keep the edges wet and the face damp till finished, and prevent its drying too quickly; good results will be found from dampening the surface again with a whitewash brush and water, as drying slowly makes better work with more certain results.

The cleaner and sharper the sand and the less water used in mixing the cement, the stronger it will be.

Thickness, inches.....	1	$\frac{3}{4}$	$\frac{1}{2}$
1 barrel cement will cover, feet.	38	56	75
1 barrel cement and 1 barrel sand will cover, feet.....	76	100	150
1 barrel cement and 2 barrels sand will cover, feet.....	112	150	225

CONCRETE—One barrel Portland cement, 2 barrels clean, sharp sand, 5 barrels broken stone, or hard, burnt brick, or clean gravel or shingle, will yield about 20 cubic feet.

FOOT ROADS—One barrel Portland cement, 1 barrel clean, sharp sand, 3 barrels finely crushed fire bricks, or hard common bricks, or common gravel laid 3 inches thick on a firm foundation, well rammed, and the ground drained well.

1. FOR STUCCOING, the walls should be well cleaned and wetted, and the first coat ought to contain three or four parts of sharp river sand to one of cement; when hardened for the second coat, two or three parts of finer sand should be used to one part of cement.

2. FOR MOULDINGS, use equal parts of cement and fine, sharp river sand.

3. FOR FLOORING GRANARIES AND MALTINGS, level and well ram the floor, fill up to the required thickness with one part cement to three or four parts of shingle or broken bricks, and finish off with a float. If the surface is required smooth it should be overlaid by a thin covering of equal parts of cement and fine sand. When the cement has set, it will benefit it by covering the floor with water for several days.

4. FOR RESERVOIRS, GAS OR WATER TANKS, use one part cement and two or three parts of sharp, washed sand for the brickwork, and coat the inside with pure cement.

Brick and Stone Work

The following estimates will be helpful to persons who have had little experience in brick and stone work:

One foot thick, 1 foot high, 12 feet long requires $\frac{1}{2}$ bushel lime and $2\frac{1}{2}$ bushels sand, or $\frac{1}{4}$ barrel cement and $2\frac{1}{2}$ bushels sand.

One and a half feet thick, 1 foot high, 12 feet long, requires $\frac{3}{4}$ bushel lime and $3\frac{3}{4}$ bushels sand, or $\frac{1}{2}$ barrel cement and $3\frac{3}{4}$ bushels sand.

Two feet thick, 1 foot high, 12 feet long, requires 1 bushel lime and 5 bushels sand, or $\frac{3}{4}$ barrel cement and 5 bushels sand.

A brick sewer in which one tier of brick is used, will require the following quantity of *sand*, *cement* and *brick*:

Diameter Feet	Long Feet	Cement Barrels	Sand Bushels	Brick
2	100	8	60	4,200
$2\frac{1}{2}$	100	10	75	5,300
3	100	12	90	6,300
$3\frac{1}{2}$	100	14	105	7,300
4	100	16	120	8,300
5	100	20	150	10,500

All sewers larger than 2 feet in diameter should have two courses or "rings" of brick.

Lime and sand never increase the quantity of stone or concrete.

One perch stone, $\frac{1}{2}$ barrel cement, 6 cubic feet sand will make 25 cubic feet of stone.

One perch stone, 1 bushel lime, 6 cubic feet sand will make 25 cubic feet stone.

The sharper the sand, the more lime, the better and stronger the work.

P. S.—Always keep cement well covered and in dry place.

Plastering

Plasterers' work is measured by the square yard, consisting of 9 square feet.

In arches, the grit around them multiplied by the length will give the superficies.

Ten bushels good lime, 2 bushels good hair, 100 pounds plaster Paris, 1,400 lath, 2 cubic yards clean, sharp sand, 1 pound lath nails, will plaster 100 yards square, face measure.

Mortar, Plastering, Etc.

MORTAR—One part of lime to 3 or $3\frac{1}{2}$ parts of sharp river sand; or 1 part lime to 2 of sand and 1 of blacksmith's ashes.

BROWN MORTAR—One-third lime, two-thirds sand and a small quantity of hair.

COARSE MORTAR—One part lime to 4 of coarse gravelly sand.

One rod of brickwork requires 1 cubic yard of lime and $3\frac{1}{2}$ single loads of sand; or 36 bushels of cement and 36 bushels of sharp sand.

One yard, or 9 superficial feet, $1\frac{1}{2}$ bricks thick, requires $2\frac{1}{4}$ bushels of cement.

One superficial yard of pointing brickwork in cement, require $\frac{1}{8}$ of a bushel.

Some kinds of cement set so fast that it is not safe to mix more than can be used within twenty minutes.

Mortar made of cement worked after it begins to set becomes worthless.

Capacities of Cisterns and Wells

Number of gallons contained in the clear between the stone or brickwork for each 10 inches in depth:

Diameter Feet	Gallons
2	19
3	44
4	78
5	122
6	176
7	240
8	313
9	396
10	489
11	592
12	705
13	827
14	959
15	1,101
20	1,958
25	3,050
30	4,406

Brickwork

1 rod of brickwork.....	=272 surface feet, $1\frac{1}{2}$ bricks thick.
1 rod of brickwork.....	= $11\frac{1}{2}$ cubic yards=306 cubic feet.
1 rod of brickwork.....	=4,350 bricks average laying.
1 rod of brickwork.....	=5,370 bricks laid dry.
36 bricks flat, or 52 on the edge.....	=1 yard paving.
Number of bricks in 1 cubic yard.....	=384.
1 load of mortar.....	=1 cubic yard.
1 cubic yard of brickwork requires about $6\frac{1}{2}$ cubic feet of sand and $2\frac{1}{2}$ cubic feet of lime.	

Dimensions of Brick

Common brick.....	8 x $4\frac{1}{2}$ x $2\frac{1}{2}$ inches	85 cubic inches.
Front brick.....	$8\frac{1}{4}$ x $4\frac{1}{2}$ x $2\frac{1}{2}$ inches	92.8 cubic inches.

Laid in Cement Occupy

Common brick.....	$8\frac{1}{4}$ x $4\frac{1}{2}$ x $2\frac{3}{4}$ inches	102 cubic inches.
Front brick.....	$8\frac{1}{2}$ x $4\frac{3}{4}$ x $2\frac{3}{4}$ inches	111 cubic inches.
15 common brick to a cubic foot of 8-inch wall, when laid.		
$22\frac{1}{2}$ common brick to a cubic foot of 12-inch wall, when laid.		
30 common brick to a cubic foot of 16-inch wall, when laid.		
$37\frac{1}{2}$ common brick to a cubic foot of 20-inch wall, when laid.		
1,000 bricks, closely stacked.....		=56 cubic feet.
1,000 old bricks, cleaned and loosely stacked.....		=72 cubic feet.
Bricks absorb one-fifteenth of their weight of water.		
Bricklayer's hod will hold 20 bricks.		
Bricklayer's hod will hold $\frac{2}{3}$ cubic foot of mortar.		
Bricklayer's hod will hold $\frac{1}{2}$ bushel, nearly.		
One rod of brickwork requires 126 gallons of water to slake the lime and mix the mortar.		

Directions for Mixing and Using Cements

Take one part cement and one part sand; and in all cases mix the sand and cement well together before applying water; and do not mix more than can be used in thirty minutes.

The sand should be clean and sharp, and entirely free from any foreign matter.

In plastering walls with cement, care should be taken that the surface is washed clean and the cement applied while the bricks or stones are still damp.

As a general rule, slow-setting cements are the best.

Cement mixed with cold water in cold weather, in a damp place, may take from ten to twenty days to get moderately hard, but will eventually become perfectly solid.

Cement worked during warm weather sets much quicker than it does in cold weather, and even then it takes several days to harden.

Carrying Capacity of Sewer Pipe

When the area to be drained and the fall of the sewer per 100 feet is known, the size of the pipe required can be easily ascertained by referring to the following table, which shows the number of gallons discharged per minute by specified sizes and grades. In main sewers this flow of course is greatly increased by the added pressure of connecting laterals.

Size of Pipe Inches	Gallons Discharged per Minute							
	1-Inch Fall per 100 Feet	2-Inch Fall per 100 Feet	3-Inch Fall per 100 Feet	6-Inch Fall per 100 Feet	9-Inch Fall per 100 Feet	1-Foot Fall per 100 Feet	2-Foot Fall per 100 Feet	3-Foot Fall per 100 Feet
3	9	12	15	22	27	31	44	54
4	20	28	35	50	62	71	101	124
6	63	89	111	156	194	224	317	389
8	140	198	246	348	432	499	706	864
9	196	277	339	480	595	687	971	1,180
10	261	369	457	648	803	928	1,310	1,610
12	432	612	758	1,070	1,330	1,530	2,170	2,660
15	800	1,130	1,400	1,980	2,450	2,830	4,010	4,910
18	1,320	1,860	2,310	3,260	4,440	4,660	6,590	8,080
20	1,720	2,500	3,060	4,330	5,305	6,130	8,660	10,610
24	2,910	4,110	5,035	7,191	8,810	10,270	14,520	17,790
27	4,020	5,680	6,960	9,840	12,050	13,920	19,680	24,110
30	5,380	7,618	9,320	13,180	16,140	18,640	26,350	32,280
33	6,950	9,840	12,050	17,040	20,865	24,090	34,070	41,730
36	8,800	12,450	15,210	21,565	26,410	30,500	43,130	52,820

Sewer pipes have very much greater carrying capacity than brick sewers of same dimensions.

Statistics show the maximum rainfall to be about one inch per hour, except during very heavy and uncommon storms.

One inch rainfall per hour gives 22,633 gallons per hour for each acre, or 377 gallons per minute per acre.

Experience shows that owing to various obstructions, not over 50 or 75 per cent of the rain falling will reach the drain within the same hour. Due allowance should be made for this fact in determining the size of pipe required, as severe storms are generally of short duration.

All authorities agree that these pipes have a carrying capacity of 50 per cent over brick sewers of the same size.

Measures of Length

FRENCH	BRITISH AND UNITED STATES
1 metre.....	= { 39.37 inches, or 3.28083 feet or 1.09361 yards.
.0348 metre.....	=1 foot.
1 centimetre.....	=.3937 inch.
2.54 centimetres.....	=1 inch.
1 millimetre.....	=.03937 inch, or $\frac{1}{25}$ inch nearly.
25.4 millimetres.....	=1 inch.
1 kilometre.....	=1093.61 yards, or 0.62137 mile.

Measures of Surfaces

FRENCH	BRITISH AND UNITED STATES
1 square metre.....	= { 10.764 square feet. 1.196 square yards.
.836 square metre.....	=1 square yard.
.0929 square metre.....	=1 square foot.
1 square centimetre.....	=.155 square inch.
6.452 square centimetres.....	=1 square inch.
1 square millimetre.....	=.00155 square inch.
645.2 square millimetres.....	=1 square inch.
1 centiare=1 square metre...	=10.764 square feet.
1 are=1 square decametre...	=1076.41 square feet.
1 hectare=100 ares.....	=107641 square feet=2.4711 acres.
1 square kilometre.....	= { .386109 square miles=247.11 acres.
1 square myriametre.....	=38.6109 square miles.

Interchangeable Tables Between U. S. and Metric Systems

Base: 1 Metre equals 39.3704 inches

Long Measure

Number	64th of an Inch to Millimetres	Millimetres to 64th of an Inch.	Inches to Centimetres	Centimetres to Inches
1	0.3969	2.5179	2.5400	0.3937
2	0.7938	5.0393	5.0799	0.7874
3	1.1906	7.5590	7.6199	1.1811
4	1.5875	10.0787	10.1599	1.5749
5	1.9844	12.5984	12.6999	1.9685
6	2.3813	15.1180	15.2398	2.3622
7	2.7781	17.6377	17.7798	2.7559
8	3.1750	20.1574	20.3198	3.1496
9	3.5719	22.6770	22.8597	3.5433

Number	Metres to Feet	Feet to Metres	Kilometres to Miles	Miles to Kilometres
1	3.2809	0.3048	0.6214	1.6093
2	6.5617	0.6096	1.2428	3.2187
3	9.8426	0.9144	1.8641	4.8280
4	13.1235	1.2192	2.4855	6.4373
5	16.4043	1.5240	3.1068	8.0467
6	19.6852	1.8287	3.7283	9.6560
7	22.9661	2.1335	4.3496	11.2653
8	26.2470	2.4383	4.9710	12.8746
9	29.5278	2.7431	5.5923	14.4840



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